

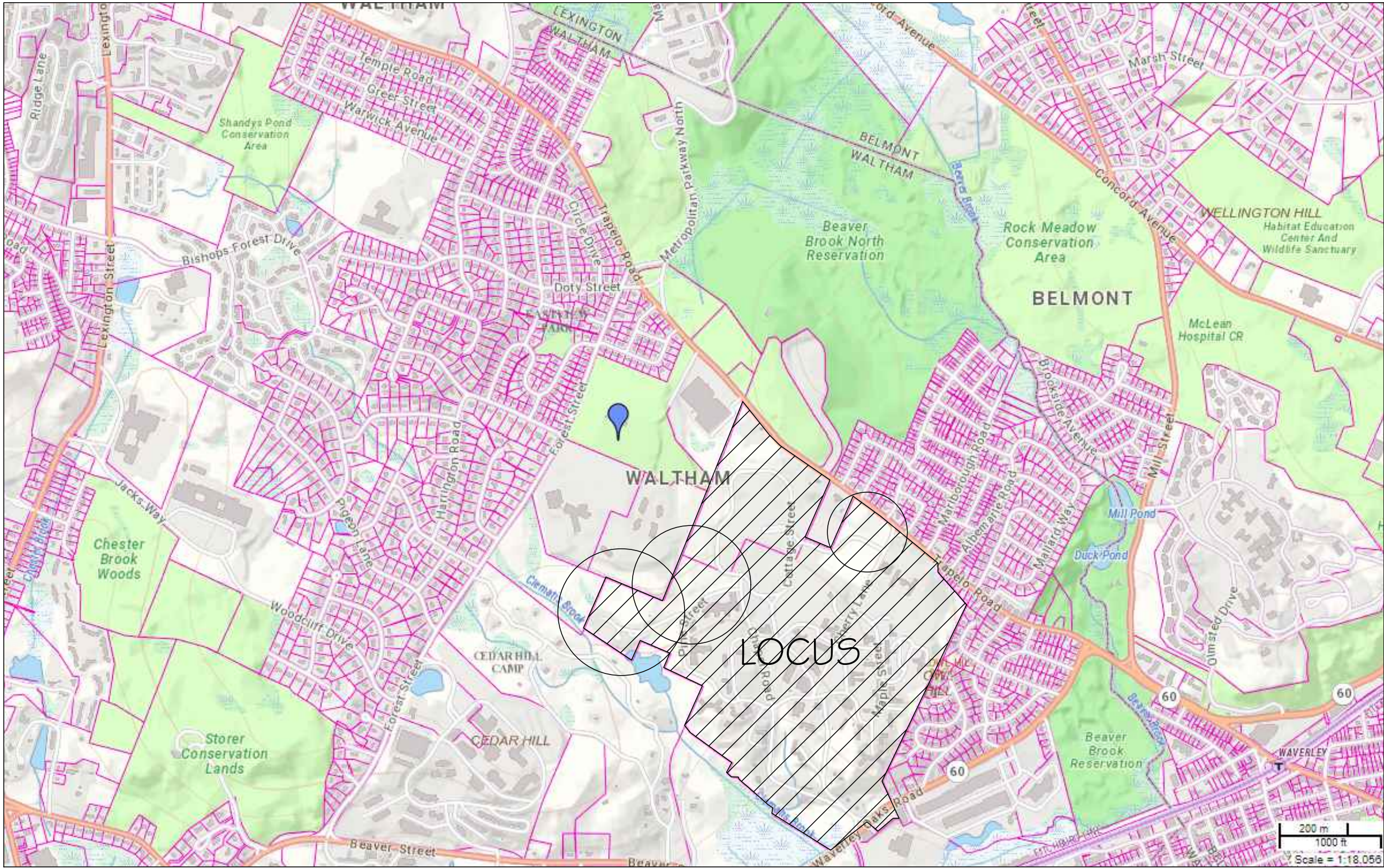
FERNALD PROPERTY IMPROVEMENTS PROJECT

PHASE I

WALTHAM, MASSACHUSETTS

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PROJECT		
FERNALD PROPERTY IMPROVEMENTS PROJECT PHASE I 200 TRAPELO ROAD, WALTHAM, MA 02452		
CLIENT		
CITY OF WALTHAM 610 MAIN ST WALTHAM, MA 02452		
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COVER SHEET		

C-1

EROSION CONTROL NOTES:

1.

AN AREA SHALL BE CONSIDERED STABLE IF ONE OF THE FOLLOWING HAS OCCURRED:
A. GRAVEL BASE COURSE HAS BEEN INSTALLED IN AREAS TO BE PAVED;
B. A MINIMUM OF 85% VEGETATED GROWTH HAS BEEN ESTABLISHED;
C. A MINIMUM OF 3" OF NON-EROSIVE MATERIAL SUCH AS STONE FOR RIP RAP HAS BEEN INSTALLED;
D. EROSION CONTROL BLANKETS HAVE BEEN PROPERLY INSTALLED;
2.

THE CONTRACTOR SHALL CONDUCT DAILY AND TIMELY INSPECTION OF BOTH TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL MEASURES.
3.

CONSTRUCTION SHALL PROCEED IN SUCH A MANNER AS TO FACILITATE INSTALLATION OF EROSION CONTROL MEASURES AND THE COMPLETION OF GRADING, SEEDING, AND LANDSCAPING AS SOON AS POSSIBLE WITHIN AN AREA. THIS PROCEDURE SHOULD RESULT IN THE EXPOSURE OF THE SMALLEST PRACTICAL LAND AREA AT ANY ONE TIME.
4.

INSTALL SILT SOCKS AS SHOWN ON PLAN AND IN DETAIL BEFORE EARTHWORK COMMENCES. ADDITIONAL SILT SOCKS MAY BE REQUIRED AS WORK CONTINUES.
5.

CUT AND FILL SLOPES BOTH CALL FOR EROSION CONTROL MEASURES.
6.

ALL DISTURBED AREAS SHALL HAVE TOPSOIL SPREAD (8" MINIMUM) AND BE LIMED, FERTILIZED, TILLED, SEEDDED AND MULCHED. ALL SLOPES 3:1 (3 RUN 1 RISE) AND STEEPER SHALL HAVE MULCH HELD IN PLACE WITH BIODEGRADABLE JUTE NETTING, STAPLED AND STAKED. EACH AREA SHALL BE LIMED, FERTILIZED, PREPARED, SEEDDED AND MULCHED (WITH ANCHORED NETTING IF REQUIRED) WITHIN 24 HOURS OF FINAL GRADING. WHEN PERMANENT SEEDING CANNOT BE INSTALLED BY SEPTEMBER 15, TEMPORARY SEEDING AND MULCHING OF ALL DISTURBED AREAS SHALL BE INSTALLED IMMEDIATELY AND MAINTAINED IN THAT CONDITION UNTIL PERMANENT PRACTICES CAN BE INSTALLED IN THE FOLLOWING PLANTING SEASON.
7.

TEMPORARY STABILIZATION OF DISTURBED AREAS: SEED BED PREPARATION:
TILL THREE INCHES DEEP MIXING IN FERTILIZER.
APPLY LIME 2 TONS/ACRE (100#/1,000 SQ. FT.)
FERTILIZE: UNIFORMLY APPLY NOT LESS THAN 300#/ACRE (7#/1,000 SQ. FT.) OF 10-20-20 OR EQUIVALENT.
SEEDING: SELECT APPROPRIATE SEEDING MIXTURE FROM TABLE 1 BELOW. SPREAD SEED UNIFORMLY. FIRM SOIL BY ROLLING OR PACKING; IF NOT FEASIBLE, THAN RAKE LIGHTLY TO COVER SEEDS.
MULCHING: MULCH ALL DISTURBED AREAS WITH 1- ½ TO 2 TONS OF STRAW OR SALT MARSH HAY PER ACRE (70-90# / 1,000 SQ. FT.)
ANCHOR ON ALL SLOPES 3:1 OR STEEPER AND FLATTER SLOPES SUBJECT TO WASHOUTS OR WIND BLOWING. JUTE OR OTHER BIODEGRADABLE NETTING, STAKING AND STAPLING MAY BE REQUIRED.

TABLE 1
PLANT SELECTION AND SEEDING RATES

SPECIES	PER ACRE	PER 1,000 SQ. FT.	REMARKS
WINTER RYE	2 BU OR 112 LBS.	2.6 LBS.	BEST FOR FALL SEEDING. SEED AUGUST 15 TO SEPTEMBER 15 FOR BEST COVER. SEED TO DEPTH OF ONE INCH.
OATS	2 ½ BU OR 90 LBS.	2 LBS.	BEST FOR SPRING SEEDINGS. LATER THAN MAY 15 FOR SUMMER PROTECTION. SEED TO DEPTH OF ONE INCH.
ANNUAL RYE	40 LBS.	1. LB	GROWS QUICKLY, BUT IS FOR SHORT GRASS DURATION. USE WHERE APPEARANCES ARE IMPORTANT. COVER SEED WITH NO MORE THAN ¼ INCH OF SOIL WITH MULCH. SEEDING MAY BE DONE THROUGHOUT GROWING SEASON. OTHERWISE SEED EARLY SPRING OR BETWEEN AUGUST 15 AND SEPTEMBER 15.
8.	PERMANENT STABILIZATION OF DISTURBED AREAS: SEED BED PREPARATION: TOPSOIL (SANDY LOAM, LOAM, OR SILT LOAM), FRIABLE, FREE OF TREE ROOTS, WEEDS, STONES MORE THAN 1- ½ INCHES IN DIAMETER OR LENGTH SHALL BE PLACED OVER ALL DISTURBED AREAS IN A 6" MINIMUM AND 8" MAXIMUM THICK LAYER. TOPSOIL SHALL BE FREE OF HERBICIDES AND TOXIC MATERIALS. TILL 4 INCHES DEEP MIXING IN THE FERTILIZER AND LIME. APPLY LIME 2 TONS/ACRE (100# / 1,000 SQ. FT.) FERTILIZER: UNIFORMLY APPLY NOT LESS THAN 500#/ACRE (12#/1,000 SQ. FT.) OF 10-20-20 OR EQUIVALENT. SEEDING: SPREAD SEED UNIFORMLY. FIRM SOIL BY ROLLING OR PACKING; IF NOT FEASIBLE, THAN RAKE LIGHTLY TO COVER SEEDS. MULCHING: MULCH ALL DISTURBED AREAS WITH 1- ½ TO 2 TONS OF HAY OR STRAW PER ACRE (70-90# / 1,000 SQ. FT.). ANCHOR ON ALL SLOPES 3:1 OR STEEPER AND ON LATTER SLOPES SUBJECT TO WASH (WATERWAYS) AND/OR WINDBLOWN USING JUTE OR OTHER BIODEGRADABLE NETTING, STAKING, AND STAPLING.		
9.	TEMPORARY EROSION CONTROL MEASURES SHALL NOT BE REMOVED UNTIL ALL DISTURBED AREAS HAVE BEEN STABILIZED.		
10.	MAINTENANCE: DURING THE CONSTRUCTION PERIOD AND UNTIL SUCH TIME AS THE LONG TERM VEGETATION IS ESTABLISHED. A. DISTURBED AREAS WILL BE FERTILIZED AND RESEEDDED. B. CATCH BASINS WILL BE CHECKED AND CLEANED AS NECESSARY. C. DRAINAGE AND GRASS TREATMENT SWALES SHALL BE CHECKED FREQUENTLY AND CLEANED AS REQUIRED. D. THE HAYBALE DIKES WILL BE CHECKED ON A REGULAR BASIS AND REPAIRED AS NECESSARY TO CORRECT ANY DAMAGE, DETERIORATION, AND SHORT CIRCUITING.		
11.	SITE VISITS: THE ENGINEER SHALL BE CONTACTED ON A REGULAR BASIS TO OBSERVE ALL EROSION CONTROL PRACTICES AS WELL AS THE MAINTENANCE OF THE EROSION CONTROL COMPONENTS. REFER TO CONSTRUCTION SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. EROSION CONTROL PRACTICES SHALL BE IN STRICT ACCORDANCE WITH THE APPROVED PLANS AND SPECIFICATIONS.		
12.	ALL TREATMENT SWALES AND DITCHES SHALL BE ESTABLISHED PRIOR TO DIRECTING RUNOFF TO THEM.		

CONSTRUCTION SEQUENCE:

1.

GENERAL CONTRACTOR IS RESPONSIBLE FOR OBTAINING NPDES GENERAL CONSTRUCTION PERMIT.
2.

INSTALL SILT SOCKS AT ALL LOCATIONS INDICATED ON PLAN AND AT OTHER LOCATIONS AS DETERMINED BY
ENGINEER. INSTALL OTHER TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL MEASURES AS
EARTHWORK PROCEEDS AND AS DETERMINED NECESSARY BY THE ENGINEER.
3.

INSPECT ALL DISTURBED AREAS ON A DAILY BASIS. FOLLOWING THE DAILY INSPECTION, INSTALL AS
REQUIRED ANY AND ALL TEMPORARY DRAINAGE, EROSION, AND SEDIMENT CONTROL PRACTICES AS INDICATED,
I.E., DIVERSION CHANNELS, BERMS, DRAINS, DITCHES, SEED AND MULCH OR OTHER PRACTICES.
4.

CONSTRUCT INLET PROTECTION AT ALL CATCH BASINS.
5.

STABILIZE CONSTRUCTION ENTRANCES AND TEMPORARY ACCESS ROADS WITH COARSE AGGREGATE 4 INCHES
(MINIMUM) OVER COMPACTED FILL AREAS TO PREVENT OFF-SITE TRACKING BY VEHICLES AND EQUIPMENT.
PROVIDE STEEL PLATES AS NECESSARY FOR CURB CROSSING.
6.

DEMOLISH EXISTING RESTROOMS BUILDING, REMOVE AND DISPOSE OF MATERIAL LEGALLY AND IN ACCORDANCE
WITH ALL GOVERNING REGULATIONS.
7.

SALVAGE PLAYGROUND EQUIPMENT TO BE UTILIZED BY OWNER FOR EDUCATIONAL PURPOSES. REMOVE AND
DISPOSE ALL OTHER EQUIPMENT AND FOUNDATIONS.
8.

CLEAR AND GRUB ALL VEGETATION WITHIN LIMITS INDICATED.
9.

REMOVE AND DISPOSE DENSE GRADED CRUSHED STONE WITHIN LIMITS OF SURFACE TO BE CONVERTED TO
NATURAL GRASS. SAW CUT ALL AREAS TO BE MET BY NEW PAVEMENT. REMOVE PAVEMENT MATERIAL AND
DISPOSE.
10.

IMPORT FILL MATERIAL TO SUB-GRADED LEVELS.
11.

INSTALL RETAINING WALLS.
12.

INSTALL DRAINAGE UTILITIES, CONDUITS, ETC.
13.

INSTALL FORBAYS, RAIN GARDEN AND POCKET WETLAND.
14.

CORE/DROLL AND OR PIN NETTING POLE FOUNDATIONS.
15.

INSTALL NETTING POSTS AND NETTING.
16.

INSTALL CURBING, DRAINAGE STONE AND SYNTHETIC TURF AT CHIPPING RANGE LANDING AREAS.
17.

LOAM AND SEED REMAINING CHIPPING RANGE. CONTRACTOR SHALL BE RESPONSIBLE FOR WATERING AND
MAINTAINING THROUGHOUT THE GROWING SEASON.
18.

PLACE DENSE GRADED CRUSHED STONE WITHIN THE LIMITS OF PROPOSED PAVEMENT, COMPACT AND TEST.
19.

PAVE BINDER COURSE OF ASPHALT.
20.

INSTALL VERTICAL GRANITE CURBING.
21.

PAVING FINAL COURSE OF ASPHALT.
22.

INSTALL STONE DUST WALKING PATHS ALONG DISC GOLF COURSE.
23.

INSTALL TEE BOXES, DISC GOLF BASKET TARGETS, SIGNAGE ETC.
24.

INSTALL FLAG POLE, WALKWAYS, SEAT WALLS, PAVERS, SITE FURNITURE, POST AND ROPE TRAIL GUIDE,
MONUMENTS, EDUCATIONAL AND DEDICATION SIGNAGE ETC., IN THE MEMORIAL AREA. INSTALL NEW FENCING.
25.

PLACE TOPSOIL ON ALL DISTURBED AREAS, COMPLETE PERMANENT FERTILIZING, LIMING, SEEDING AND
MULCHING, INSTALL LANDSCAPE PLANTINGS.
26.

CLEAN AND RESTORE SILT DETENTION SITES AND DRAINAGE STRUCTURES. REMOVE OTHER EROSION CONTROL
PRACTICES ON A TIMELY BASIS AS PERMANENT MEASURES TAKE HOLD. SPOT FERTILIZE, SEED, AND MULCH AS
REQUIRED.
27.

INSPECT AND MAINTAIN GRADING, EROSION CONTROL AND SEDIMENT CONTROL PRACTICES WEEKLY AND
IMMEDIATELY AFTER ALL STORMS OF MORE THAN ½ INCH PRECIPITATION IN 24 HOURS.
28.

REFER TO EROSION CONTROL NOTES FOR ADDITIONAL DETAILS RELATIVE TO THE REQUIRED CONSTRUCTION
SEQUENCE.
29.

MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROL COMPONENTS AND INSTALLATION OF ADDITIONAL
EROSION AND SEDIMENT CONTROL COMPONENTS SHALL BE AN ONGOING PRACTICE AND IN STRICT ACCORDANCE
WITH THE CONTRACT SPECIFICATIONS.
30.

PERFORM AS-BUILT SURVEY AND SUBMIT AS-BUILT AND RECORD DRAWINGS.
31.

TRAIN OWNER'S REPRESENTATIVES IN MAINTENANCE AND OPERATIONS OF THE FACILITY.
32.

COMPLETE PROJECT PUNCH LIST.
33.

SUBMIT ALL REQUIRED DOCUMENTATION, INCLUDING BUT NOT LIMITED TO WARRANTIES, MAINTENANCE
DOCUMENTS, RECORD DOCUMENTS, ETC.

GENERAL NOTES:

1.

ALL SITE WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LOCAL CPW SPECIFICATIONS.
2.

THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND PAYING FOR ALL NECESSARY CONSTRUCTION PERMITS
REQUIRED TO COMPLETE THE WORK.
3.

ALL UTILITY SIZES, LOCATIONS, AND APPURTENANCES ARE SUBJECT TO THE APPROVAL AND/ OR REVISION OF
THE RESPECTIVE UTILITY HAVING JURISDICTION.
4.

NOTIFY "DIG-SAFE" (1-888-344-7233) AND THE LOCAL CPW TO VERIFY THE LOCATION, DEPTH AND SIZE OF
THE EXISTING UTILITY SERVICE CONNECTIONS PRIOR TO CONSTRUCTION.
5.

THE CONTRACTOR IS RESPONSIBLE FOR LOAMING AND HYDROSEEDING AREAS DISTURBED BY CONSTRUCTION
OPERATIONS.
6.

ALL MATERIAL TO BE REMOVED MUST BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.
7.

ALL EXISTING UTILITIES SHALL BE PROTECTED UNLESS OTHERWISE SPECIFIED.
8.

ALL EROSION CONTROL TO BE INSTALLED PRIOR TO ANY OTHER WORK ON THE SITE.
9.

WALKWAY CROSS SLOPES, AS INDICATED IN THE STANDARD SPECIFICATIONS, WILL BE AT 1.6% MAXIMUM.
1.5% PREFERRED, IN ACCORDANCE WITH THE ARCHITECTURAL ACCESS BOARD (AAB) RULES AND REGULATIONS,
THE SIDEWALK CROSS SLOPE CANNOT EXCEED 2.0%.
10.

ANY ALTERATIONS REQUIRED ON THESE DRAWINGS DURING CONSTRUCTION SHALL BE APPROVED BY THE PROJECT
ENGINEER AND THE CITY PRIOR TO CONSTRUCTION AND SHALL BE RECORDED ON THE "AS-BUILT" DRAWINGS.
11.

THE CONTRACTOR SHALL COORDINATE ALL WORK AND TIME SCHEDULES WITH THE CITY AND THEIR
REPRESENTATIVES.

DIMENSIONS AND QUANTITIES:

1.

ALL DIMENSIONS AND QUANTITIES SHALL BE DETERMINED OR VERIFIED BY THE CONTRACTOR PRIOR TO THE
START OF CONSTRUCTION.
2.

THE INFORMATION ON THE CONTRACT DRAWINGS HAS BEEN COMPILED FROM VARIOUS SOURCES AND MAY NOT
REFLECT THE ACTUAL CONDITIONS AT THE TIME OF CONSTRUCTION.
3.

THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS AND MAKE ALL INVESTIGATIONS NECESSARY TO PERFORM THE
WORK. THE OWNER WILL NOT CONSIDER UNFAMILIARITY WITH THE PROJECT AS A BASIS FOR ADDITIONAL
COMPENSATION.

PROTECTION NOTES:

1.

ADEQUATE PROTECTION OF PERSONS AND PROPERTY SHALL BE PROVIDED AT ALL TIMES. THE WORK SHALL BE
EXECUTED IN SUCH A WAY AS TO AVOID HAZARD TO PERSONS AND PROPERTY. WORK SHALL BE ACCOMPLISHED
IN ACCORDANCE WITH THE REQUIREMENTS OF LOCAL, STATE AND FEDERAL AUTHORITIES HAVING JURISDICTION
OVER THE WORK.
2.

PROVIDE ALL NECESSARY TEMPORARY PROTECTION AND BARRIERS TO SEGREGATE THE WORK AREA AND TO
PREVENT DAMAGE TO ADJACENT AREAS.
3.

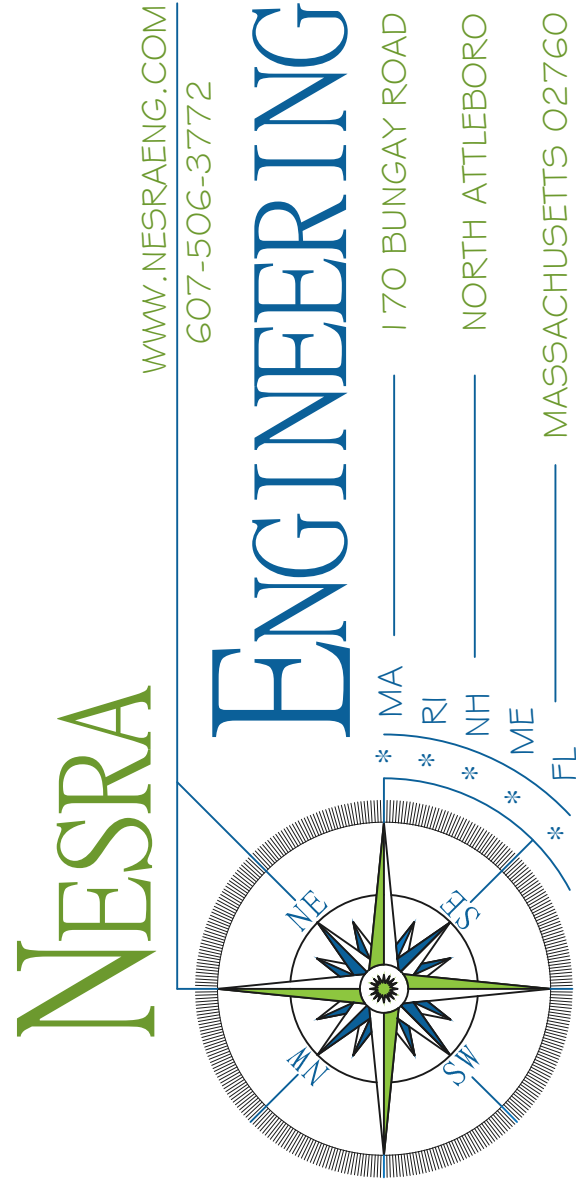
PROVIDE PROPER PROTECTION AND BARRIERS BETWEEN THE WORK OF THE CONTRACT AND THE EXISTING
STRUCTURES TO REMAIN.
4.

PROVIDE MAXIMUM SECURITY IN TERMS OF PREVENTION OF FIRE AND OTHER HAZARDS.

PERMIT ADVISORY NOTE:

1.

PURSUANT TO M.G.L., CHAPTER 82A SECTION 1, 520 CMR 7.00 AND CMR 14.00, ALSO IN ACCORDANCE WITH
'SUMMARY OF 1926 SUBPART P - OSHA EXCAVATION STANDARD' THE CONTRACTOR IS RESPONSIBLE FOR THE
FILING OF AND FULLY MEETING THE CONDITIONS OF THE NEWLY ADOPTED TRENCH PERMIT.



PROJECT

FERNALD PROPERTY
IMPROVEMENTS PROJECT
PHASE I
200 TRAPELO ROAD,
WALTHAM, MA 02452

CLIENT

CITY OF WALTHAM
610 MAIN ST
WALTHAM, MA 02452

NO.	REVISION	DATE
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SCALE - AS NOTED
DATE - 12/29/21

PROFESSIONAL SEAL

GENERAL NOTES

C-2



LEGEND

- MUSCO LIGHTS
- ELECTRIC HAND HOLE (EHH)
- DRAIN MANHOLE (DMH)
- CATCH BASIN (CB)
- AREA DRAIN (ADRN)
- UTILITY POLE (UP)
- GUY WIRE
- SEWER MANHOLE (SMH)
- HYDRANT (HYD)
- WATER SHUTOFF (WSO)
- WATER PIT
- TRASH RECEPTACLE
- PERFORATED HDPE PIPE
- SOLID DRAIN LINE
- ELECTRICAL CONDUIT
- WATER LINE
- SEWER LINE
- CHAIN LINK FENCE
- ORNAMENTAL FENCE
- MINOR CONTOURS
- MAJOR CONTOURS
- INV.
- DMH
- CB
- R.C.P.
- PERF.
- HDPE
- B.W.
- T.W.
- MON.
- ENC.
- DRAIN MANHOLE
- CATCH BASIN
- REINFORCED CONCRETE PIPE
- PERFORATED
- HIGH DENSITY POLYETHYLENE
- BOTTOM OF WALL
- TOP OF WALL
- MONUMENT
- ENCLOSURE

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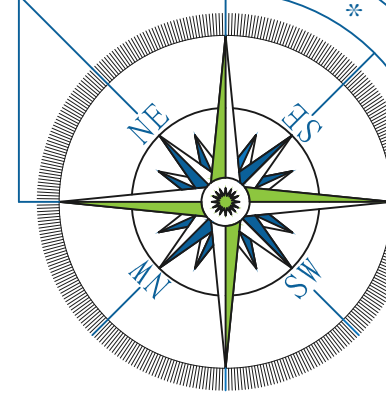
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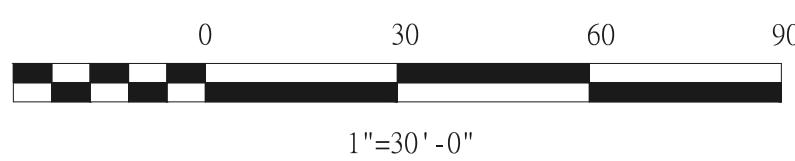
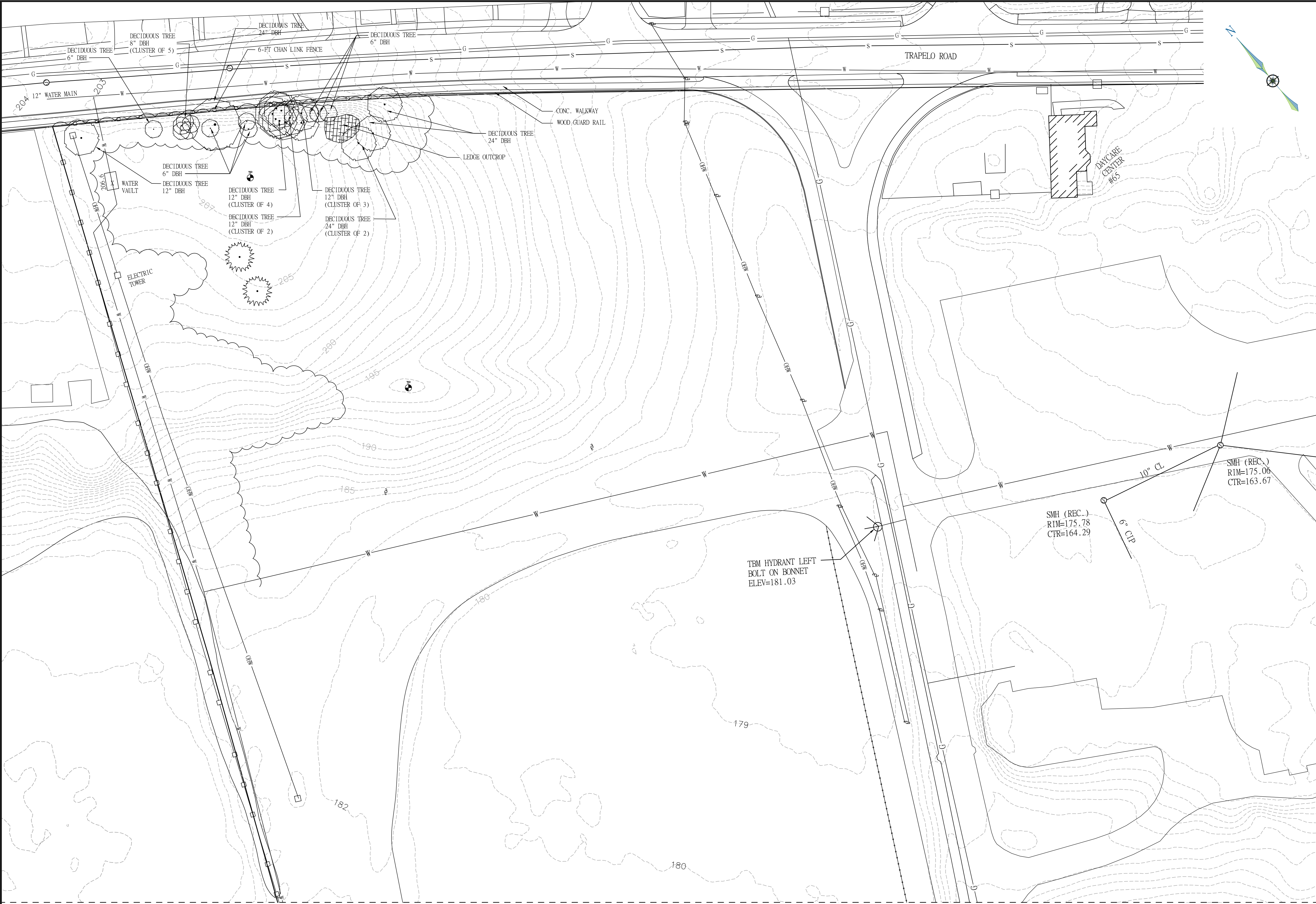
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EXISTING
CONDITIONS
OVERVIEW PLAN

C-3





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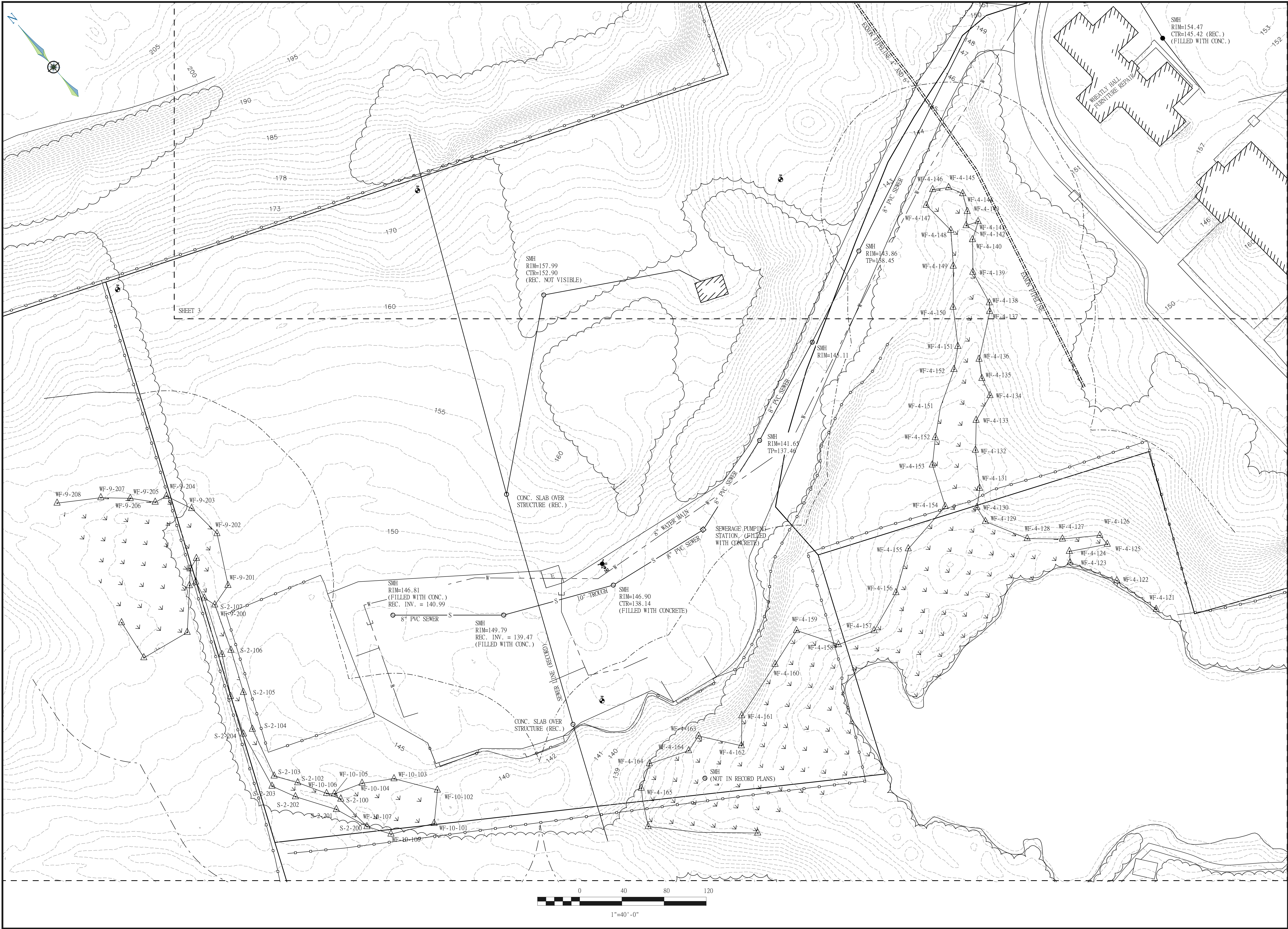
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EXISTING
CONDITIONS
PLAN SHEET 1

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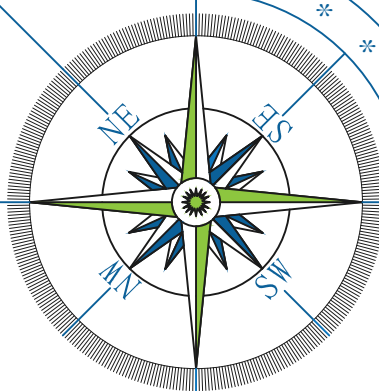
EXISTING
CONDITIONS
PLAN SHEET 2

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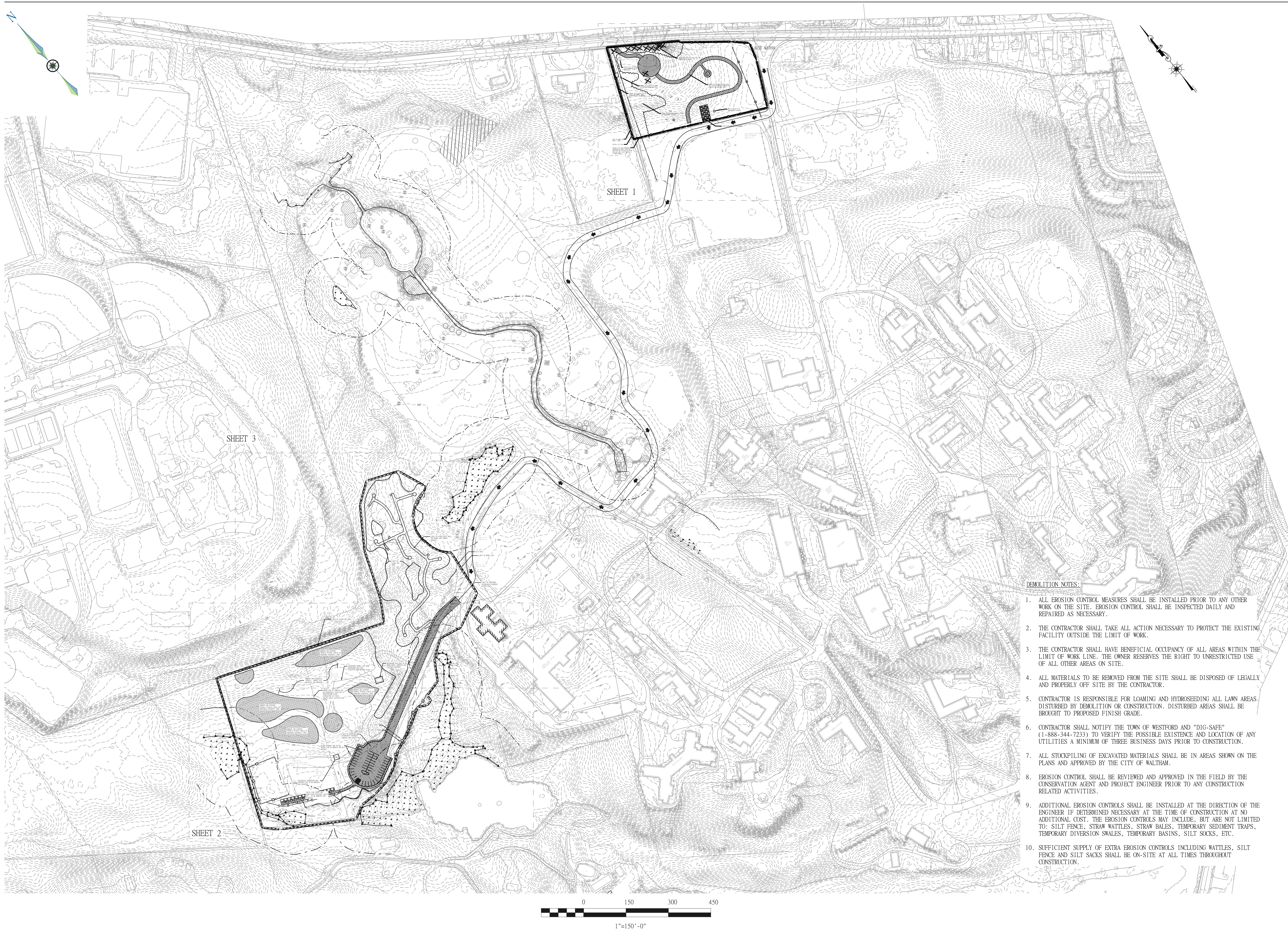
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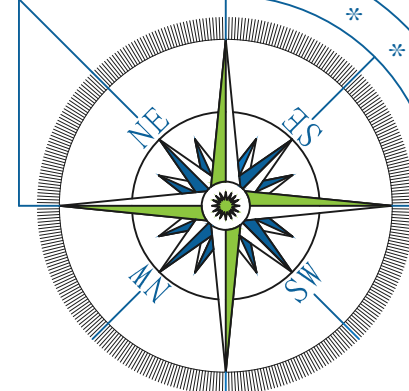
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EXISTING CONDITIONS
PLAN SHEET 3

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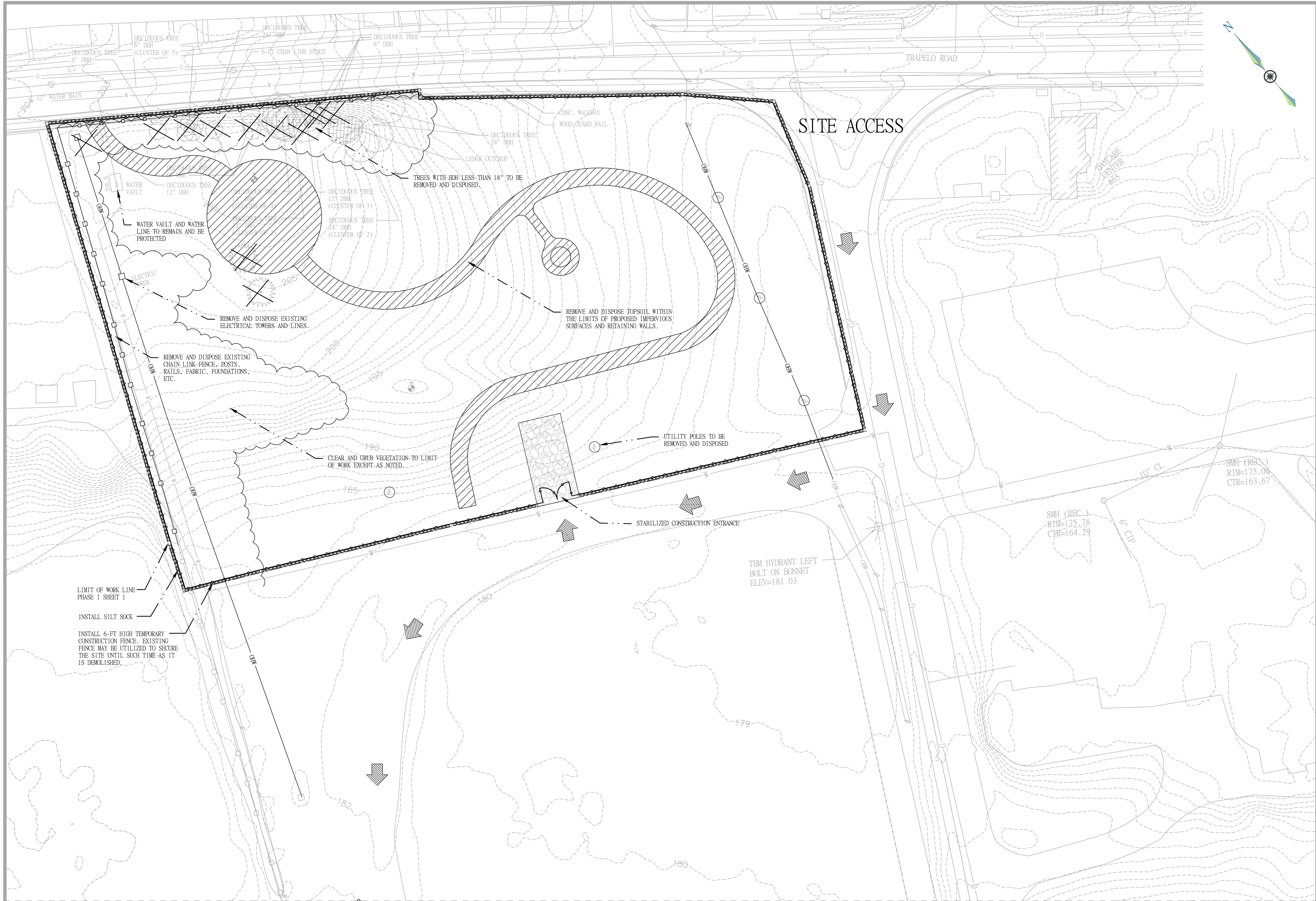
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PROFESSIONAL SEAL

DEMOLITION & EROSION CONTROL OVERVIEW PLAN

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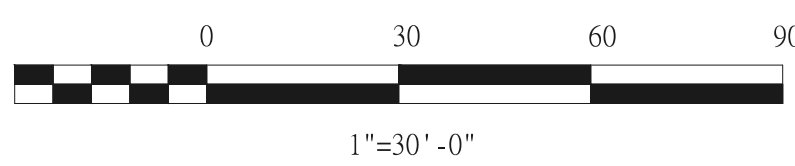
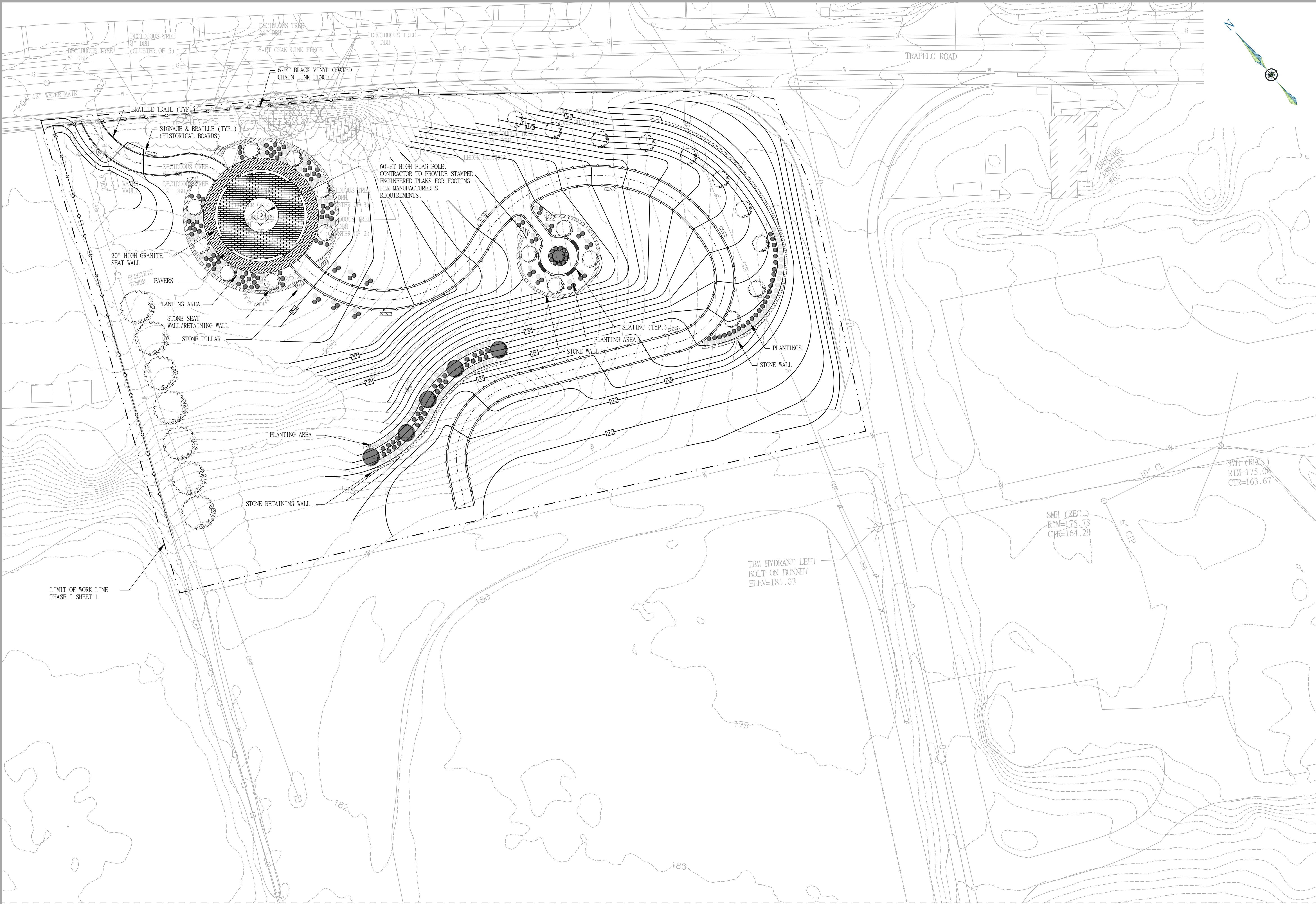
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PROFESSIONAL SEAL

DEMOLITION & EROSION CONTROL
PLAN SHEET 1

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PROFESSIONAL SEAL

LAYOUT AND MATERIALS
PLAN SHEET 1

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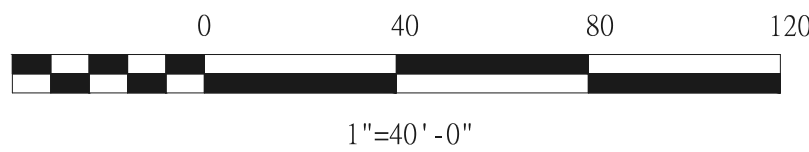
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PROFESSIONAL SEAL

LAYOUT AND MATERIALS
PLAN SHEET 2

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PROJECT
FERNALD PROPERTY
IMPROVEMENTS PROJECT
PHASE I
200 TRAPELO ROAD,
WALTHAM, MA 02452

CLIENT
CITY OF WALTHAM
610 MAIN ST
WALTHAM, MA 02452

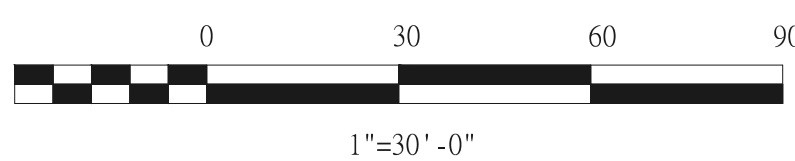
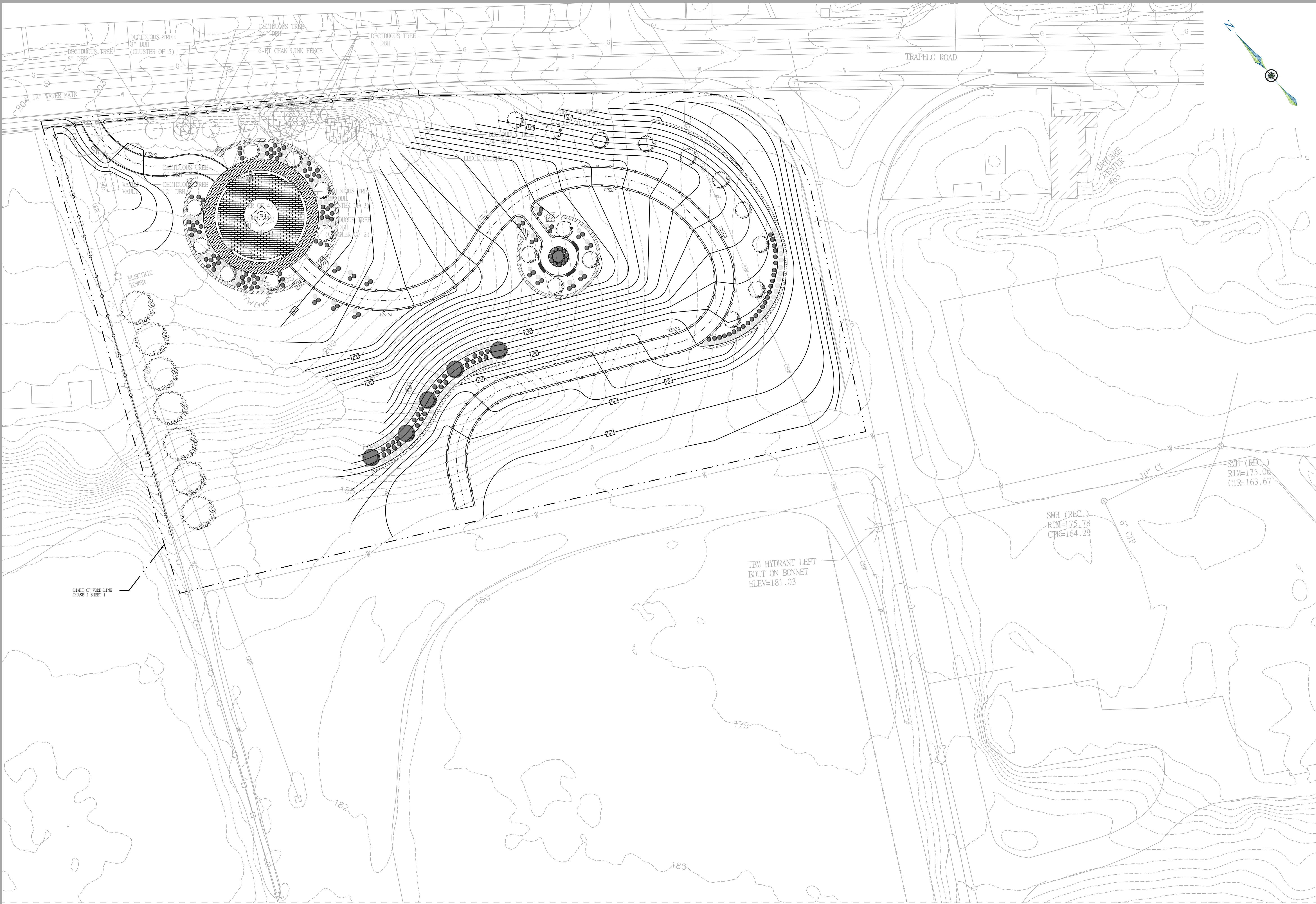
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LAYOUT AND
MATERIALS
PLAN SHEET 3

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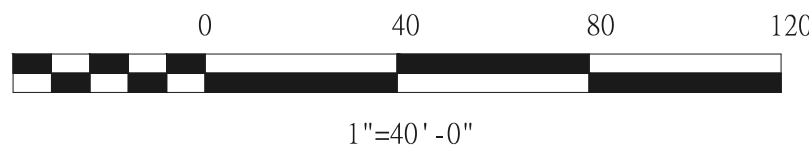
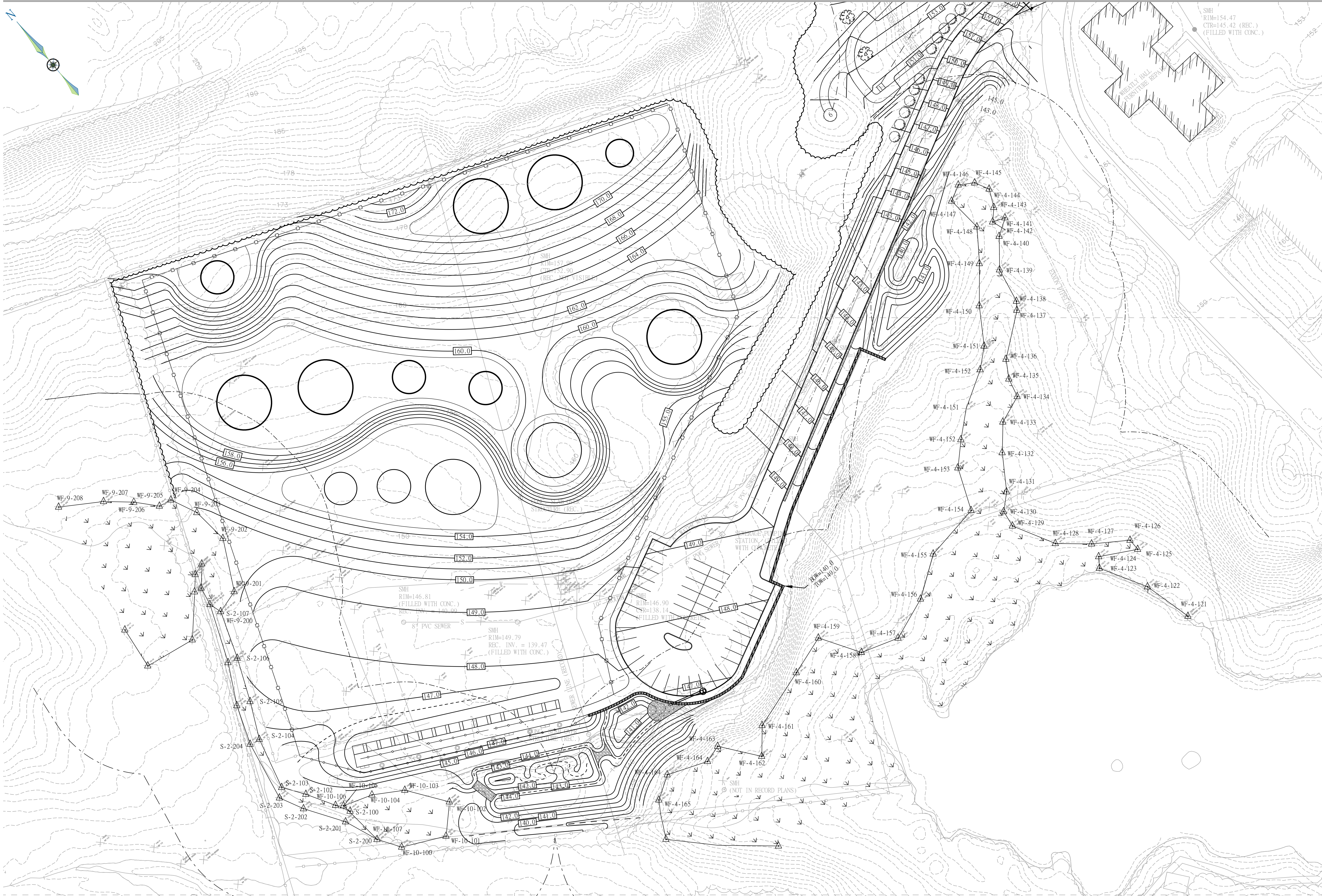
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GRADING PLAN
SHEET 1

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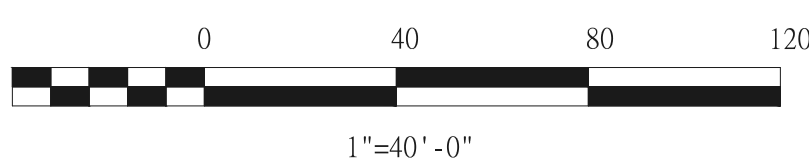
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GRADING PLAN
SHEET 2

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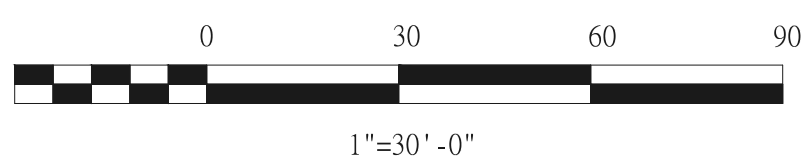
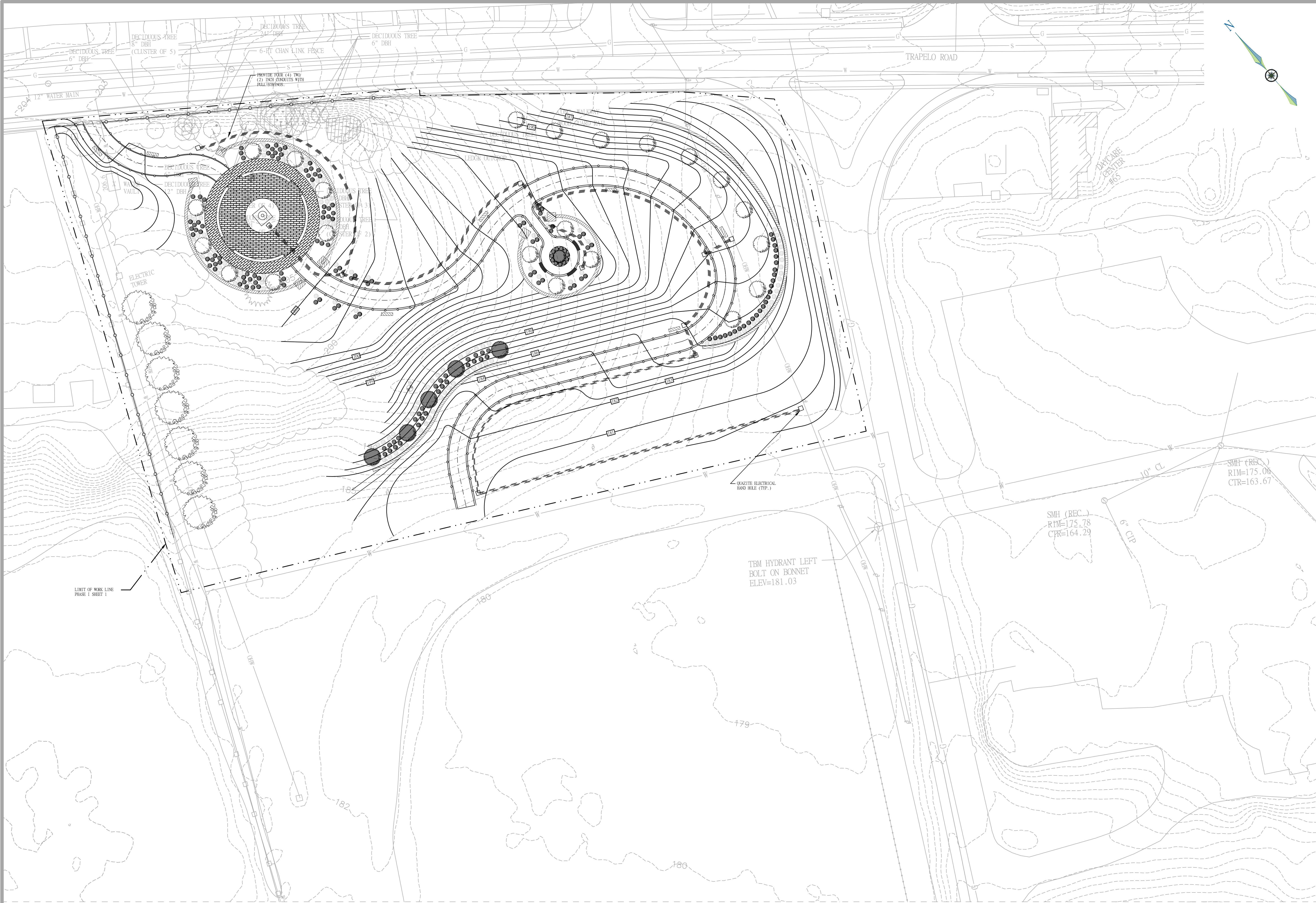
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PROFESSIONAL SEAL

GRADING PLAN
SHEET 3

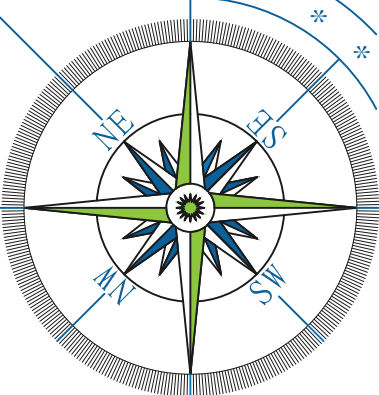
C-16



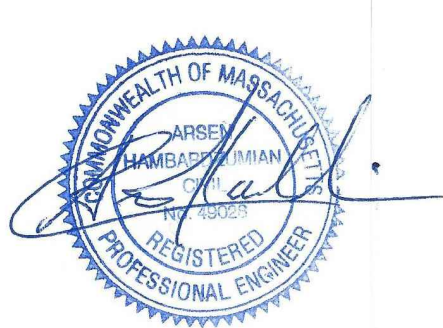
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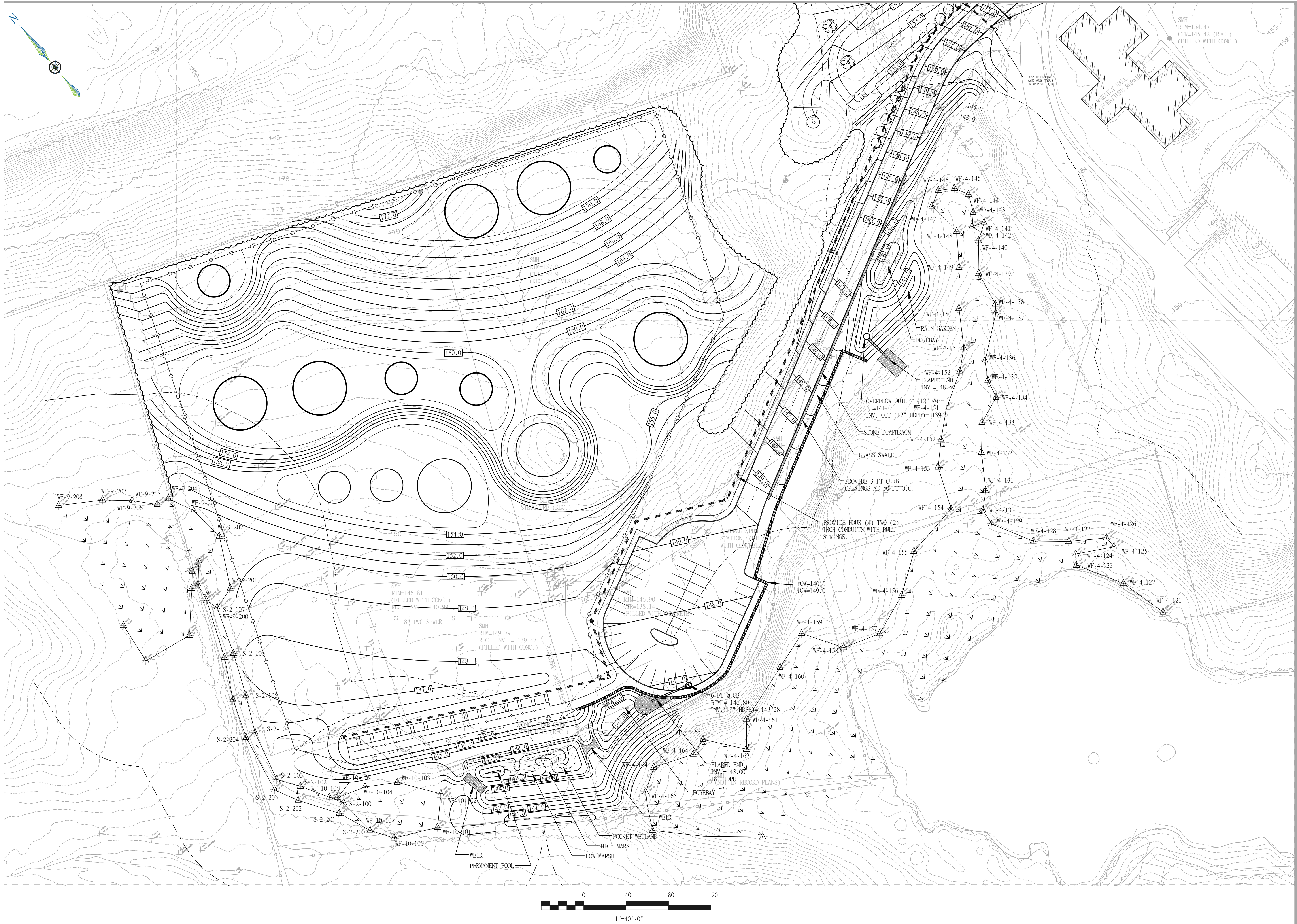
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PROFESSIONAL SEAL

DRAINAGE AND
UTILITY PLAN
SHEET 1

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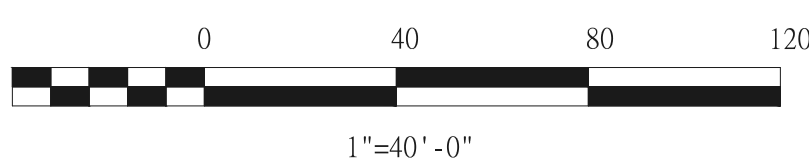
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PROFESSIONAL SEAL

DRAINAGE AND
UTILITY PLAN
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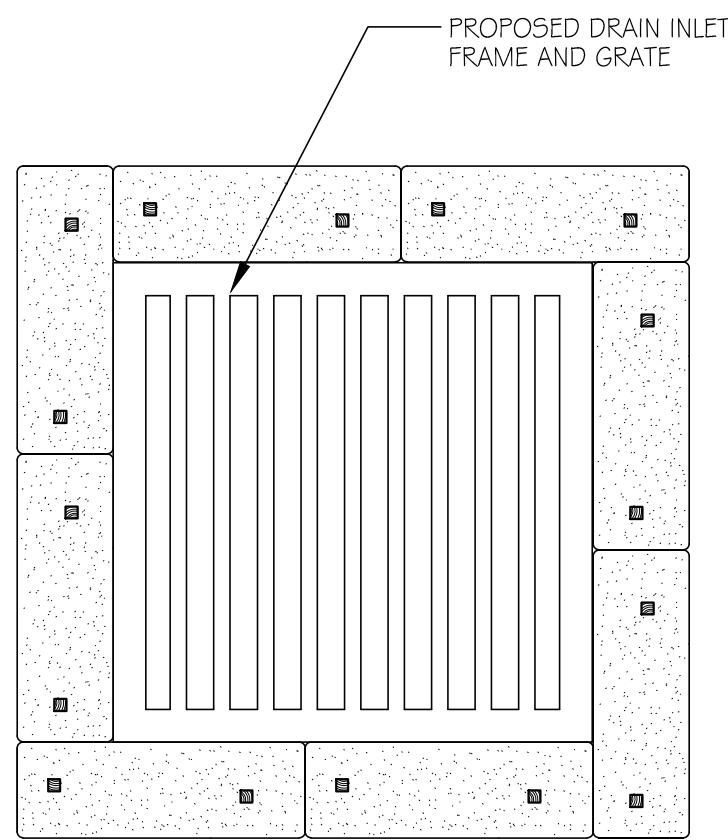
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PROFESSIONAL SEAL

DRAINAGE AND
UTILITY PLAN
SHEET 3

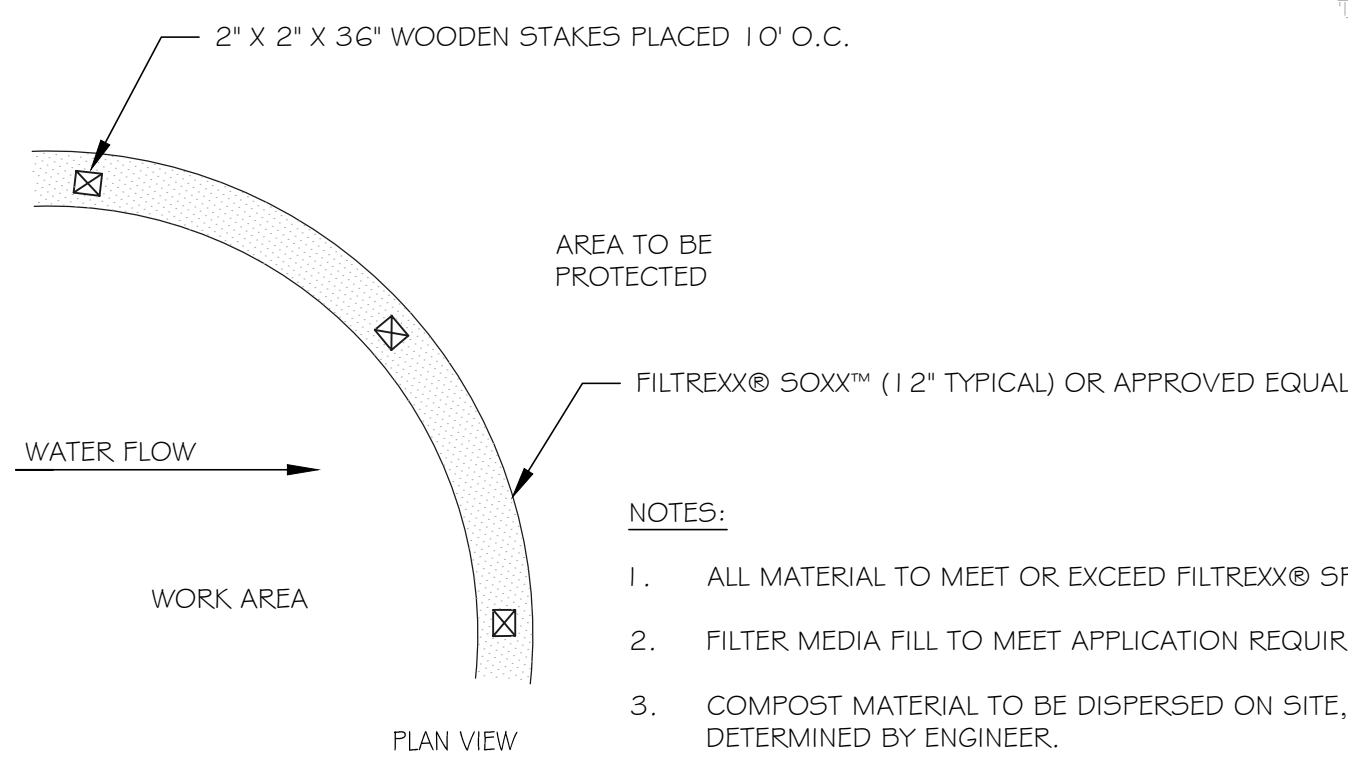
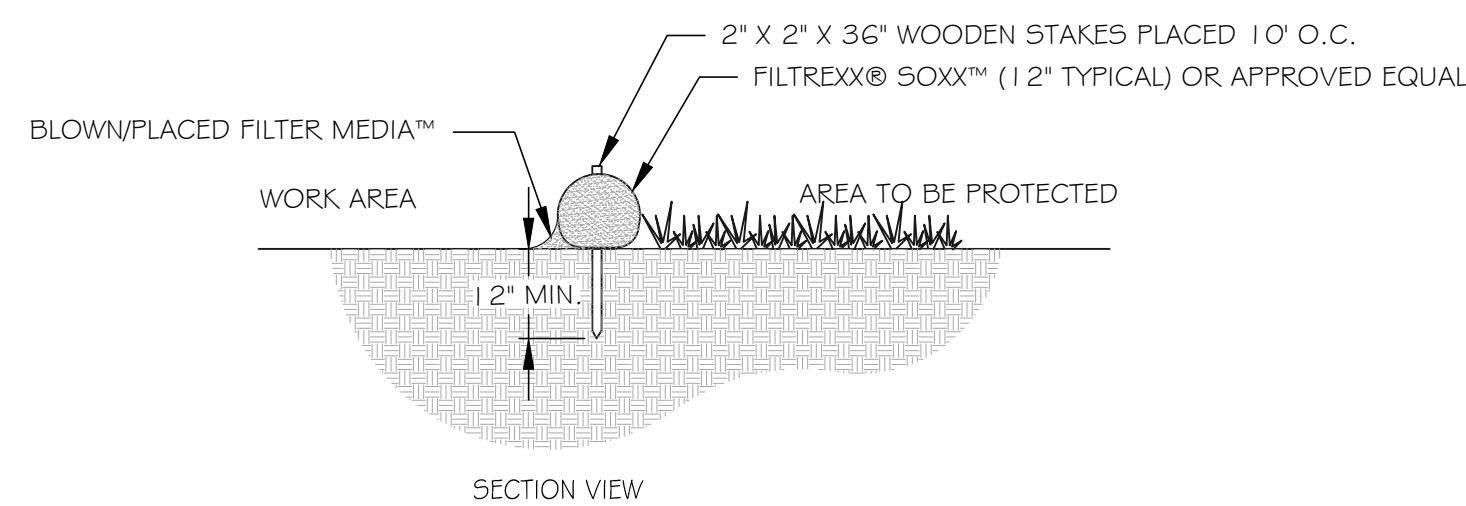
C-19



- NOTES:
- BALES SHALL BE PLACED IN A ROW WITH THE ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
 - BALES SHALL BE SECURELY ANCHORED IN PLACE BY STAKES OR RE-BARS DRIVEN THROUGH THE BALES, THE FIRST STAKE IN EACH BALE SHALL BE ANGLED TOWARD PREVIOUSLY LAID BALE TO FORCE BALES TOGETHER.
 - INSPECTION SHALL BE FREQUENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.

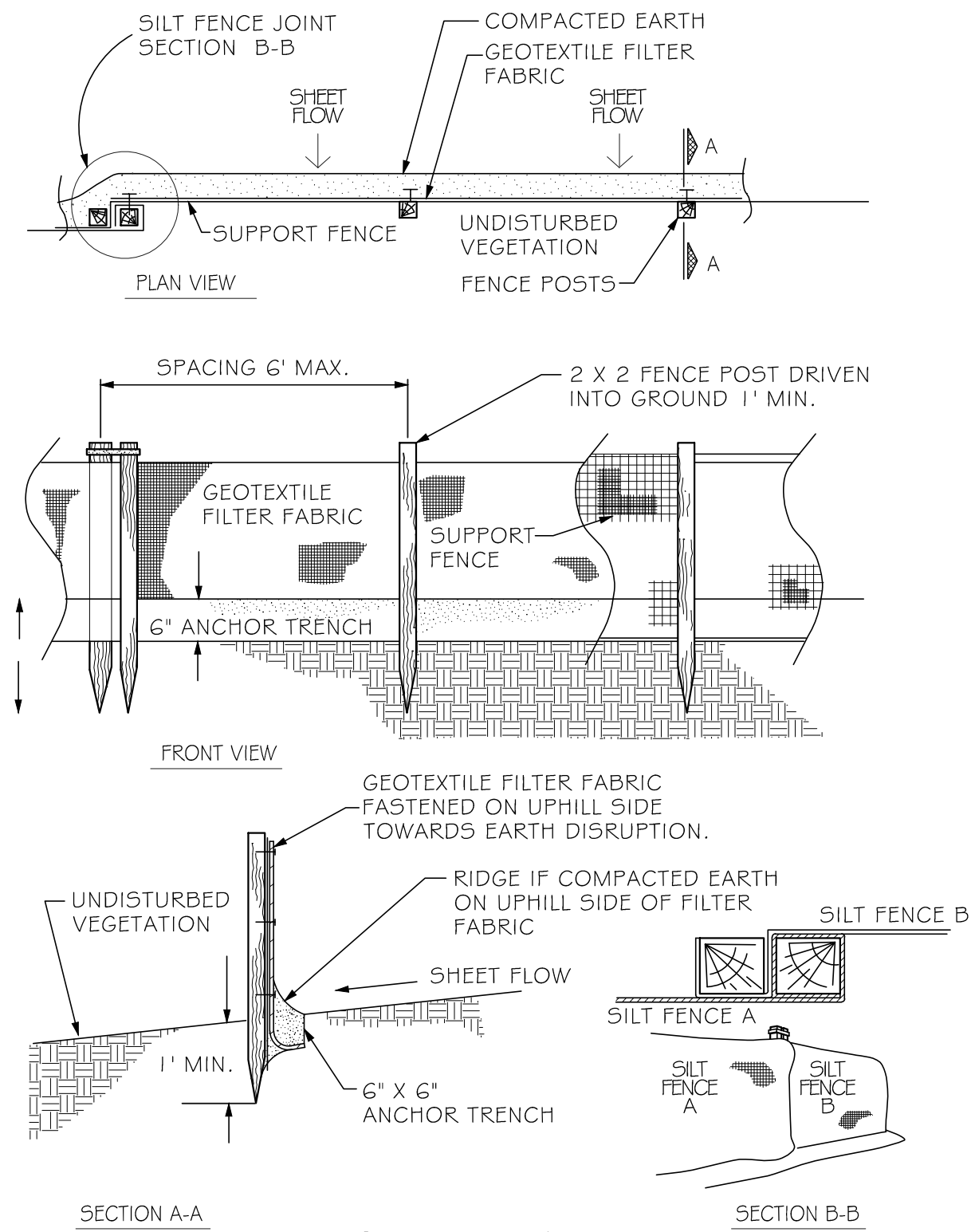
CATCH BASIN STRAW BALE FILTER DETAIL

N.T.S.



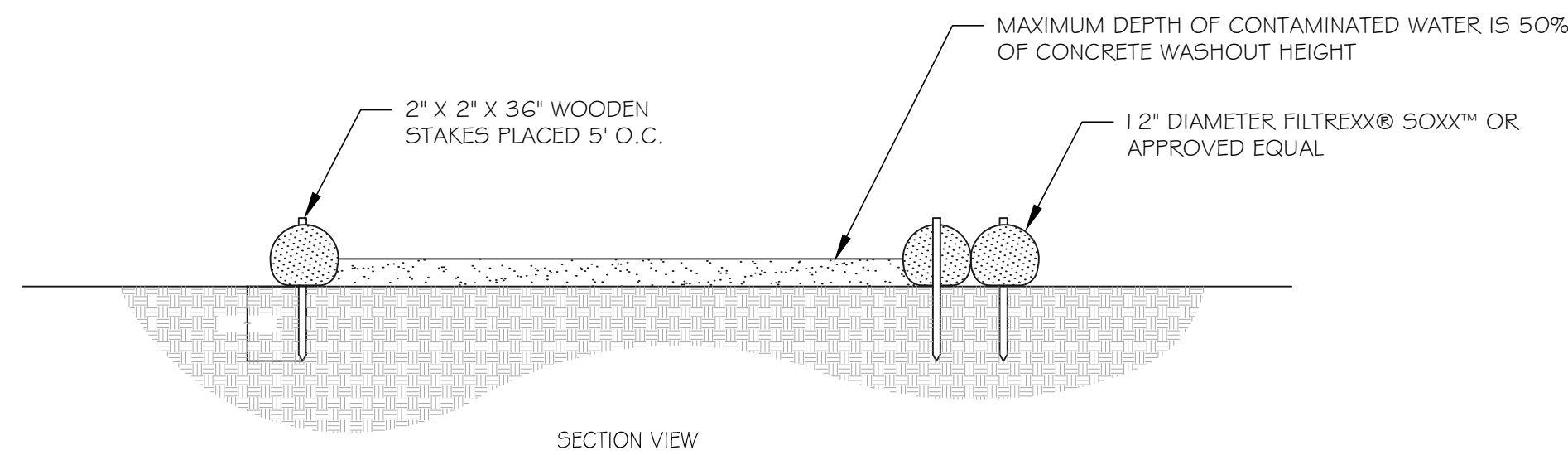
SEDIMENT CONTROL

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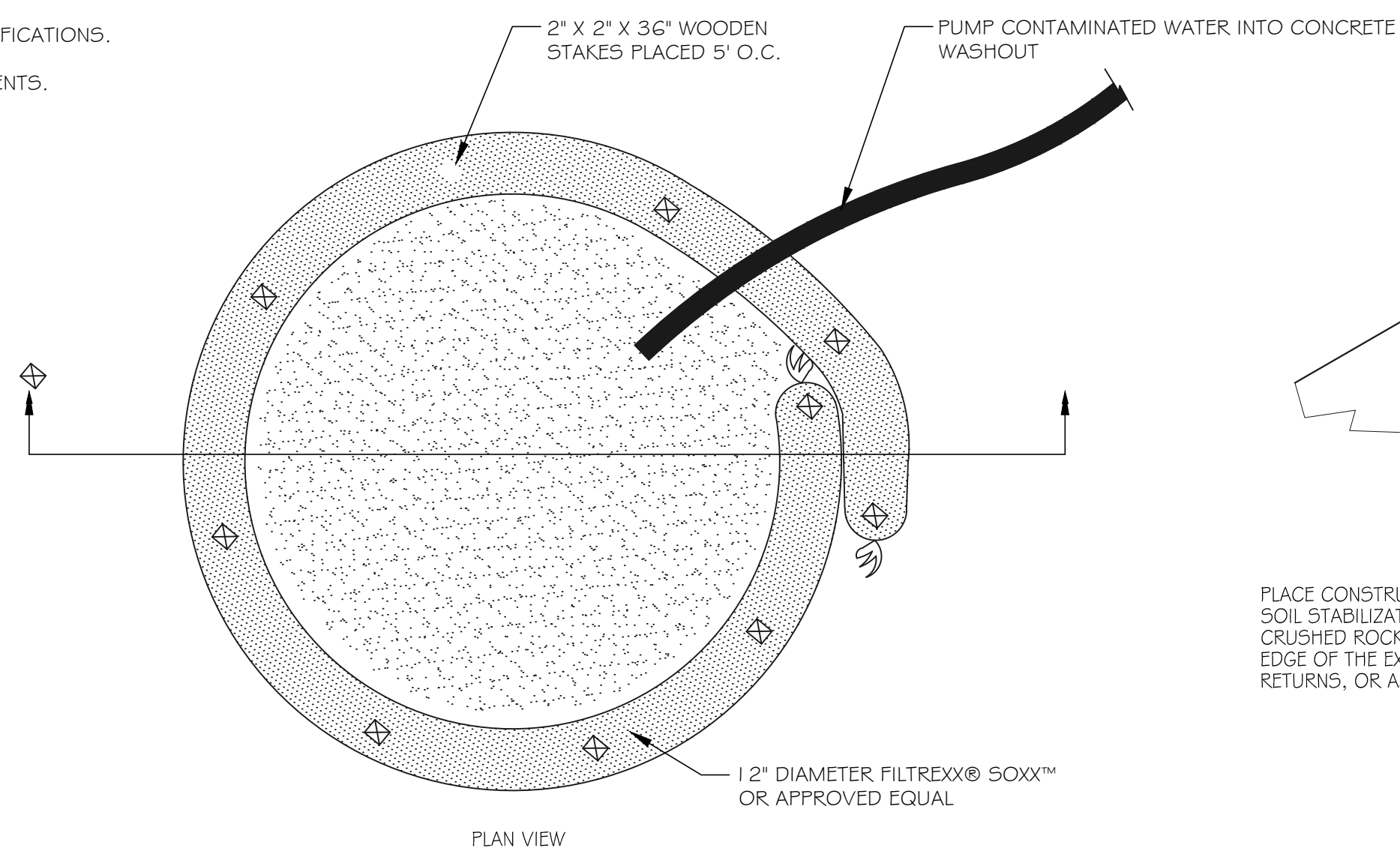


SILT FENCE

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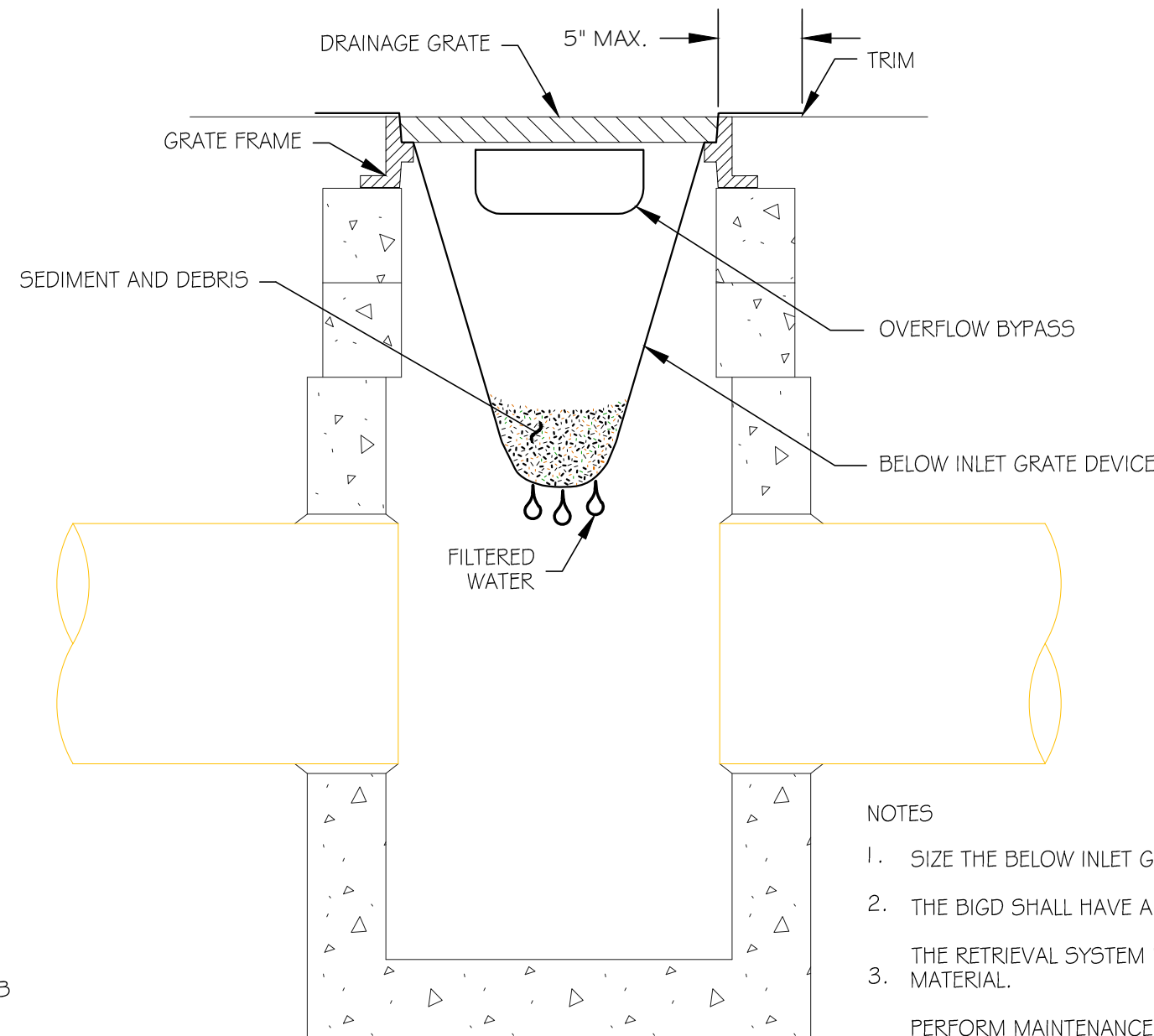


- NOTES:
- INSTALL ON FLAT GRADE FOR OPTIMUM PERFORMANCE
 - CONCRETE WASHOUT MAY BE STACKED IN A PYRAMIDAL CONFIGURATION FOR ADDED HEIGHT AND STABILITY
 - CONCRETE WASHOUT MAY BE DIRECT SEEDED AT THE TIME OF INSTALLATION



CONCRETE WASHOUT STATION

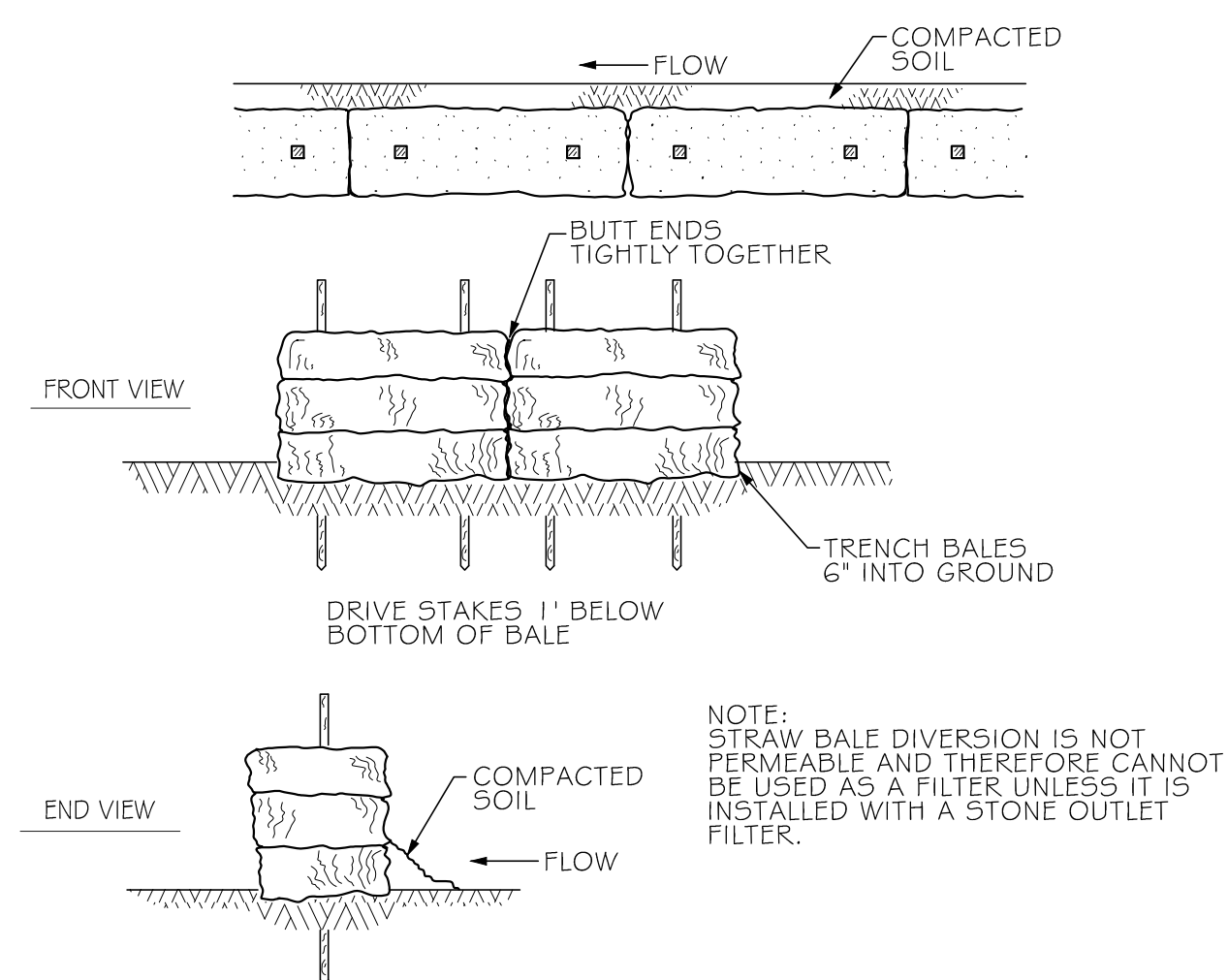
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- NOTES
- SIZE THE BELOW INLET GRATE DEVICE (BIGD) FOR THE STORM WATER STRUCTURE IT WILL SERVICE.
 - THE BIGD SHALL HAVE A BUILT-IN HIGH-FLOW RELIEF SYSTEM (OVERFLOW BYPASS).
 - THE RETRIEVAL SYSTEM MUST ALLOW REMOVAL OF THE BIGD WITHOUT SPILLING THE COLLECTED MATERIAL.
 - PERFORM MAINTENANCE IN ACCORDANCE WITH STORMWATER POLLUTION PREVENTION PLAN, TO BE PREPARED BY THE CONTRACTOR.

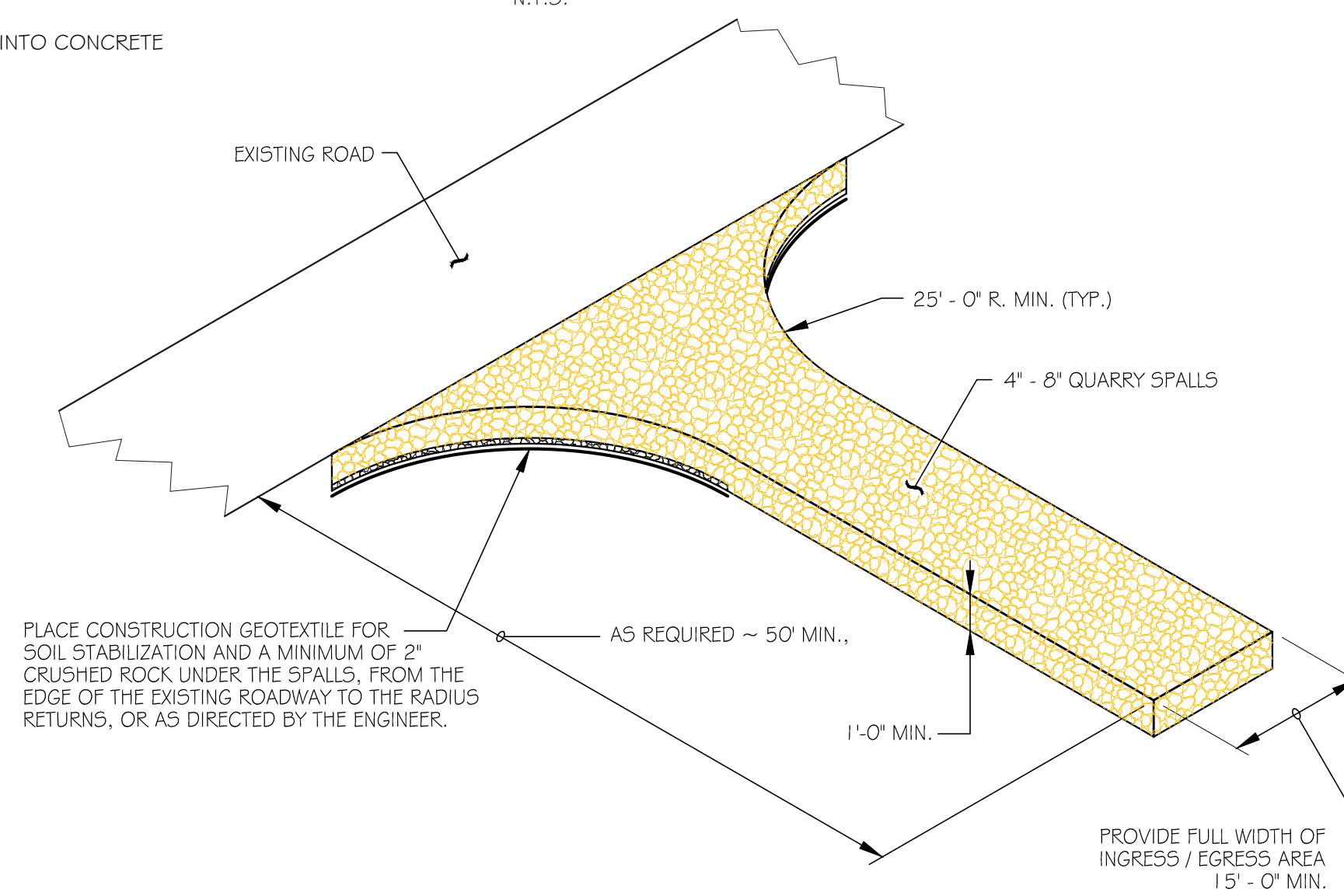
STORM DRAIN INLET PROTECTION

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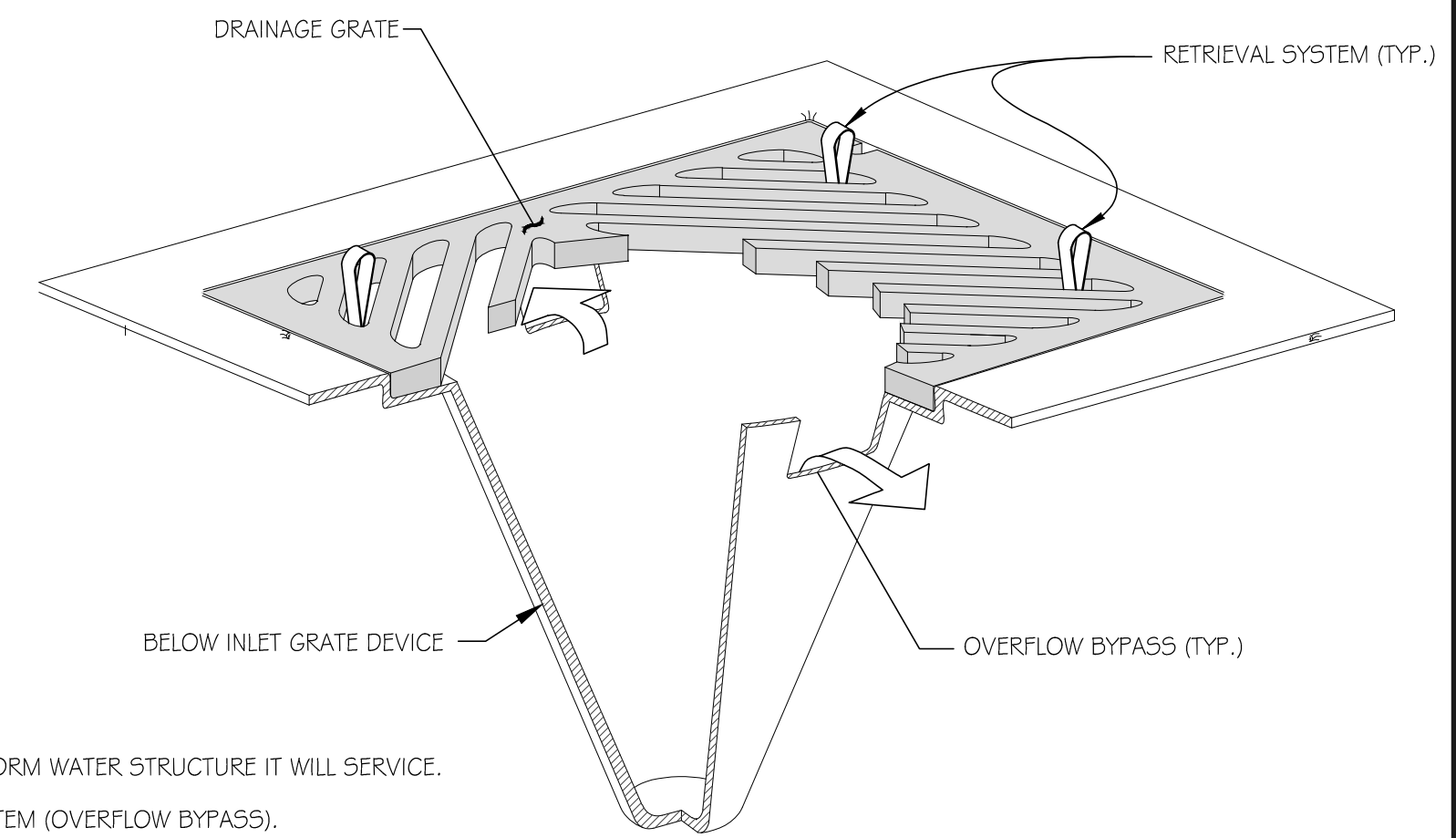
STRAW BALE DETAIL

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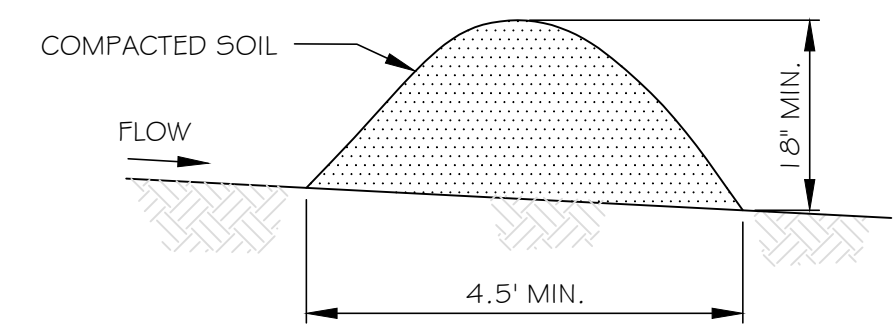


STABILIZED CONSTRUCTION ENTRANCE

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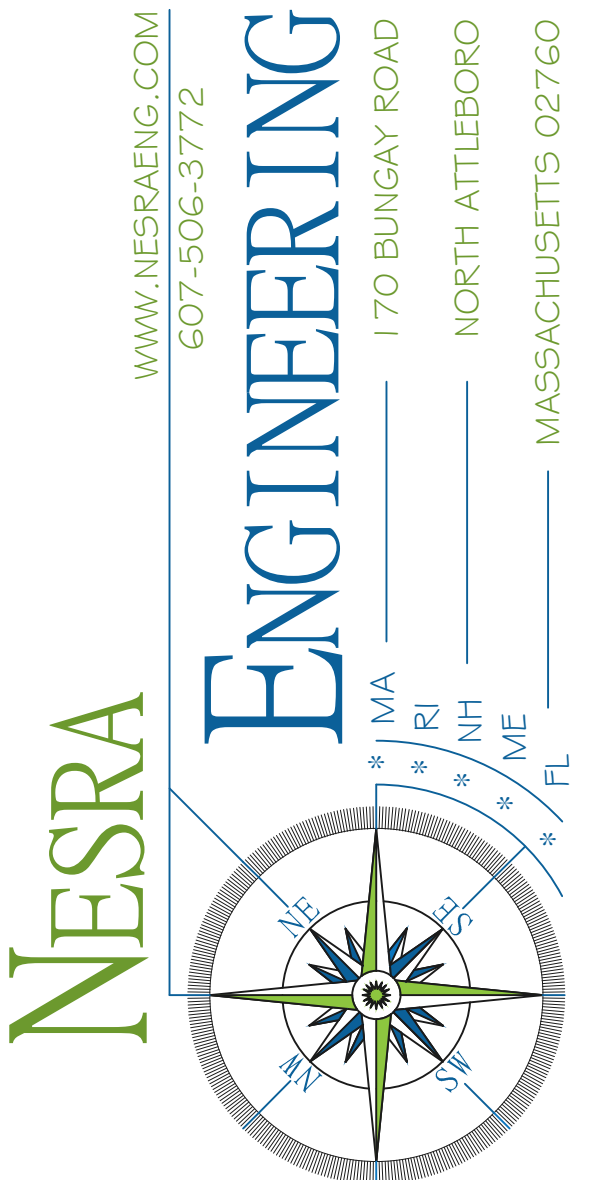


ISOMETRIC VIEW



TEMPORARY DIVERSION DIKE

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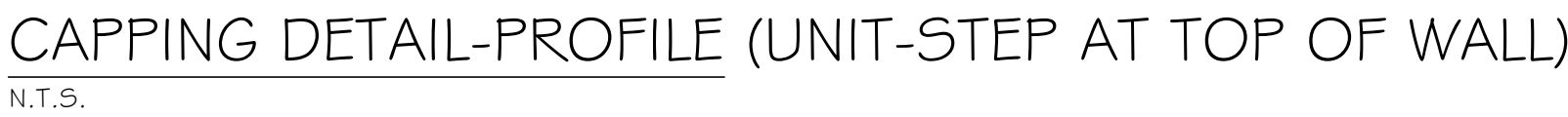
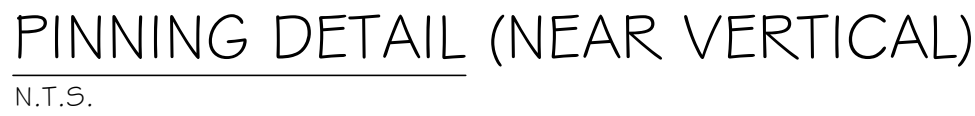
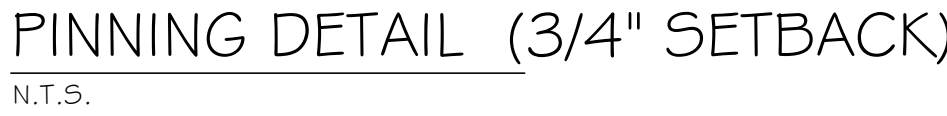
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DETAILS SHEET

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FENCE HEIGHT	END & CORNER POSTS		LINE POSTS	
NOMINAL HEIGHT	BAR LENGTH B-1	HEIGHT ABOVE GRADE H-1	BAR LENGTH B-2	HEIGHT ABOVE GRADE H-2
4'-0"	7'-0"	4'-0 ⁵ / ₈ "	6'-8"	3'-8 ⁷ / ₈ "
6'-0"	9'-0"	6'-0 ⁵ / ₈ "	8'-8"	5'-8 ⁷ / ₈ "
8'-0"	11'-0"	8'-0 ⁵ / ₈ "	10'-8"	7'-8 ⁷ / ₈ "
10'-0"	13'-0"	10'-0 ⁵ / ₈ "	12'-8"	9'-8 ⁷ / ₈ "
12'-0"	15'-0"	12'-0 ⁵ / ₈ "	14'-8"	11'-8 ⁷ / ₈ "

SINGLE OR DOUBLE LEAF GATES		
NOMINAL HEIGHT (H)	UPRIGHT HEIGHT (U)	FRAME HEIGHT (F)
WITHOUT BARBED WIRE	ACTUAL DIMENSION	ACTUAL DIMENSION
4'-0"	3'-10"	3'-8 ¹ / ₂ "
6'-0"	5'-10"	5'-8 ¹ / ₂ "
8'-0"	7'-10"	7'-8 ¹ / ₂ "

SINGLE LEAF GATES		
OPENING	GATE POSTS	HINGE SPACE (S)
FACE TO FACE	SQ & ROUND SIZES	POST TO UPRIGHT
3'-0" THROUGH 6'-0"	2 ¹ / ₂ " OR 3" O.D.	FOR SQUARE & ROUND GATE POSTS 2 ¹ / ₄ "

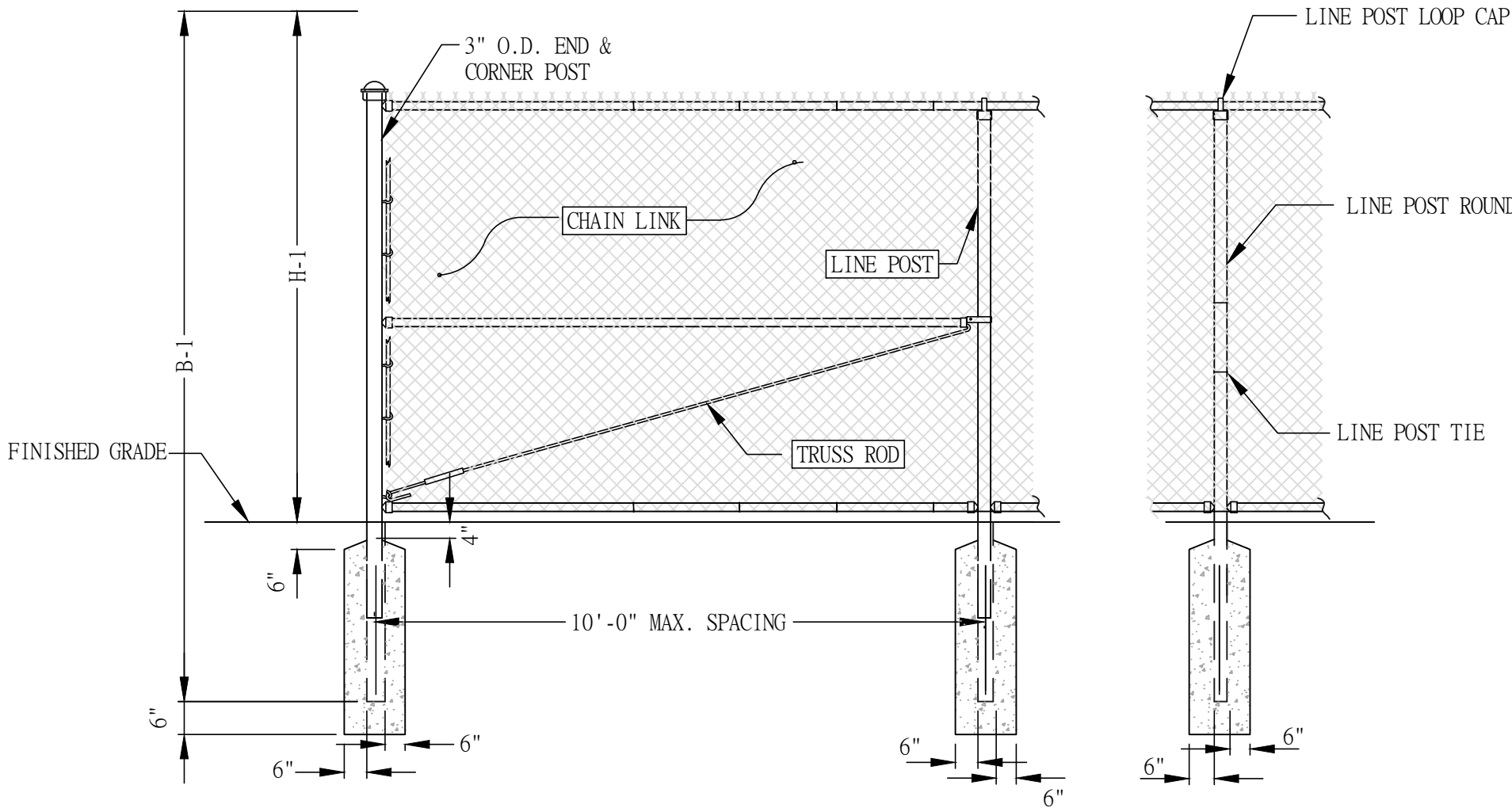
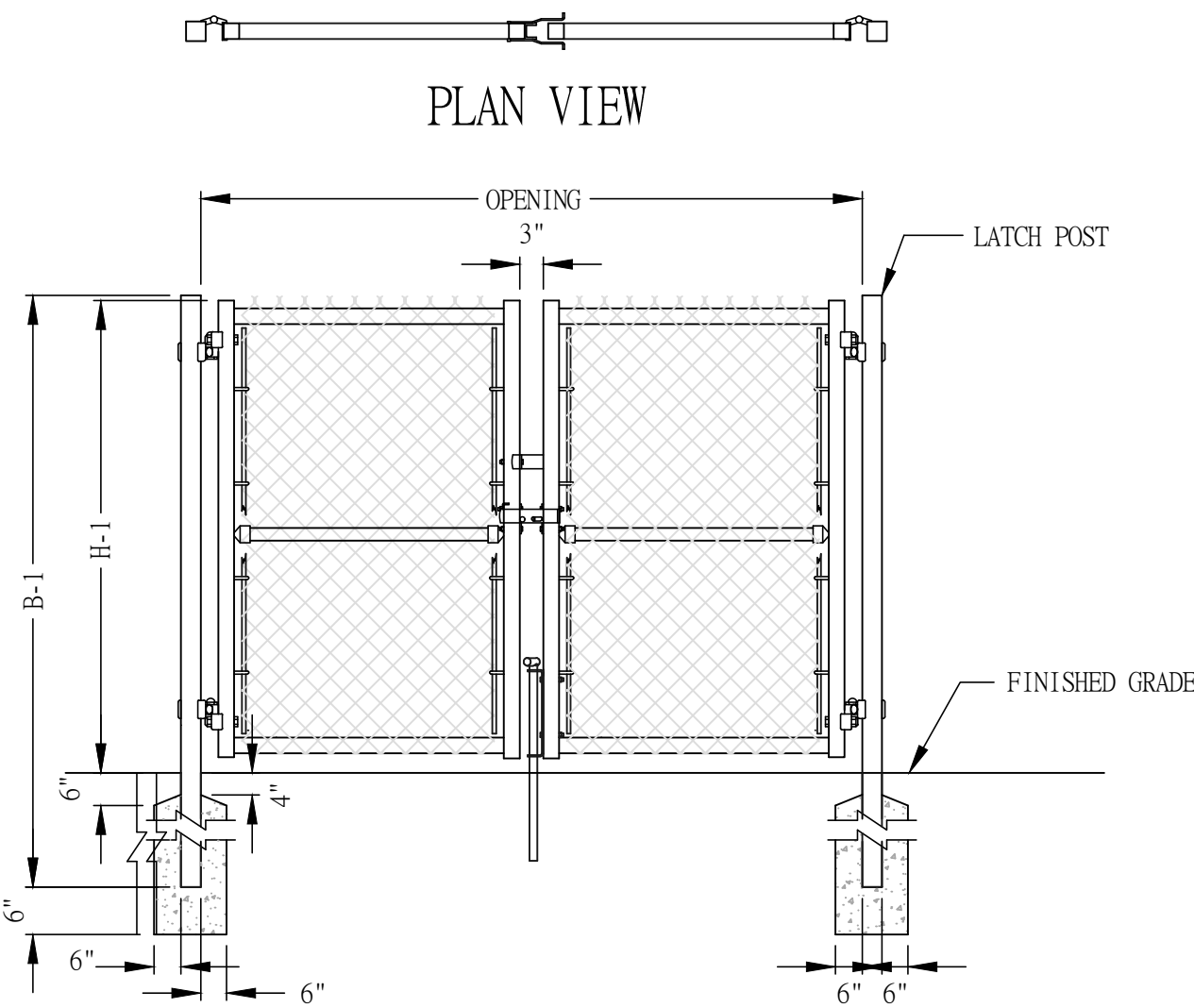
DOUBLE LEAF GATES		
OPENING	GATE POSTS	HINGE SPACE (S)
FACE TO FACE	SQ & ROUND SIZES	POST TO UPRIGHT
12'-0" THROUGH 24'-0"	3" OR 4" O.D. 1	FOR SQUARE & ROUND GATE POSTS 2 ¹ / ₄ "

CHAIN LINK FENCE & GATE NOTES

N.T.S.

DOUBLE GATE DETAIL

N.T.S.

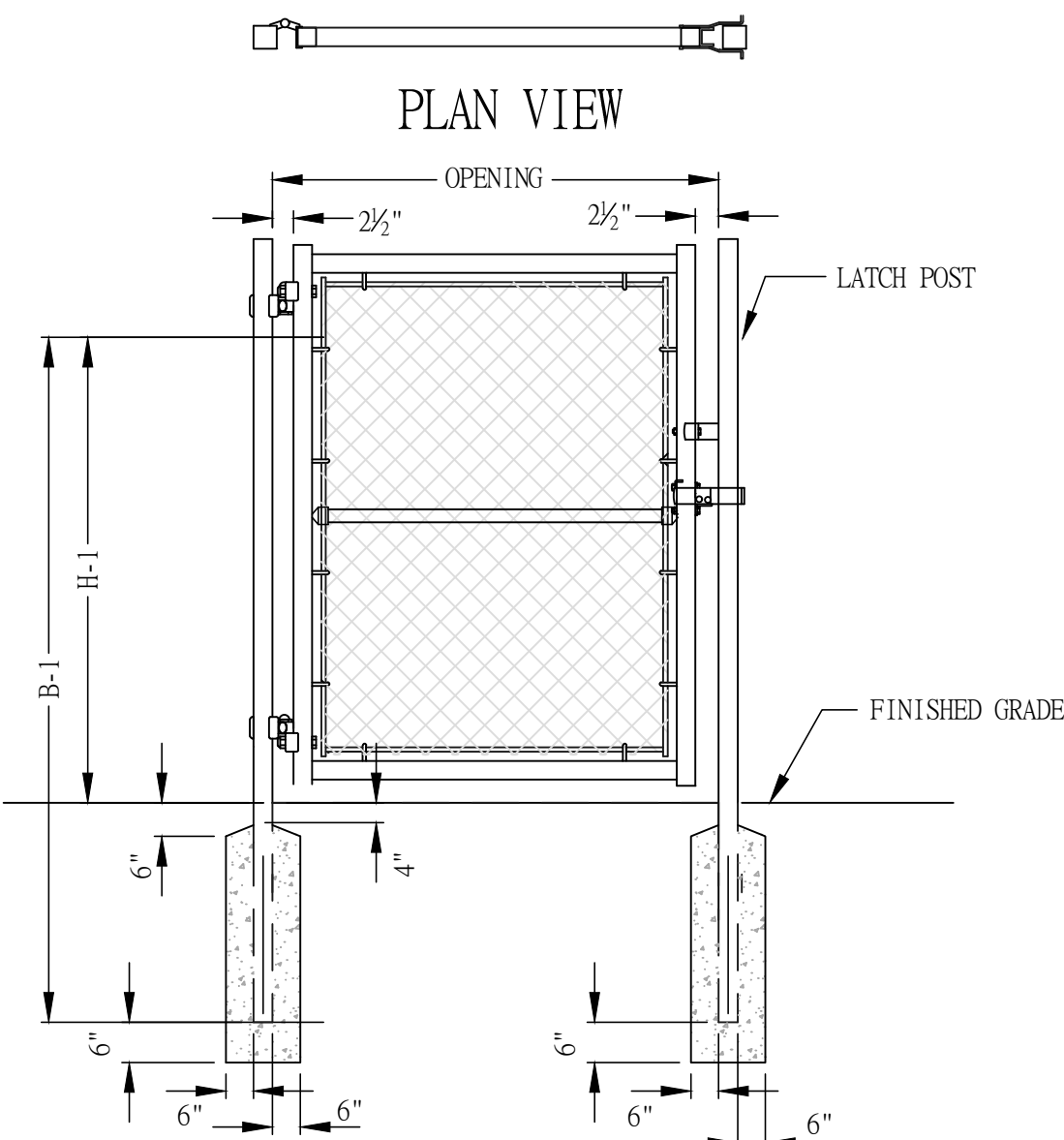


CHAIN LINK FENCE DETAILS

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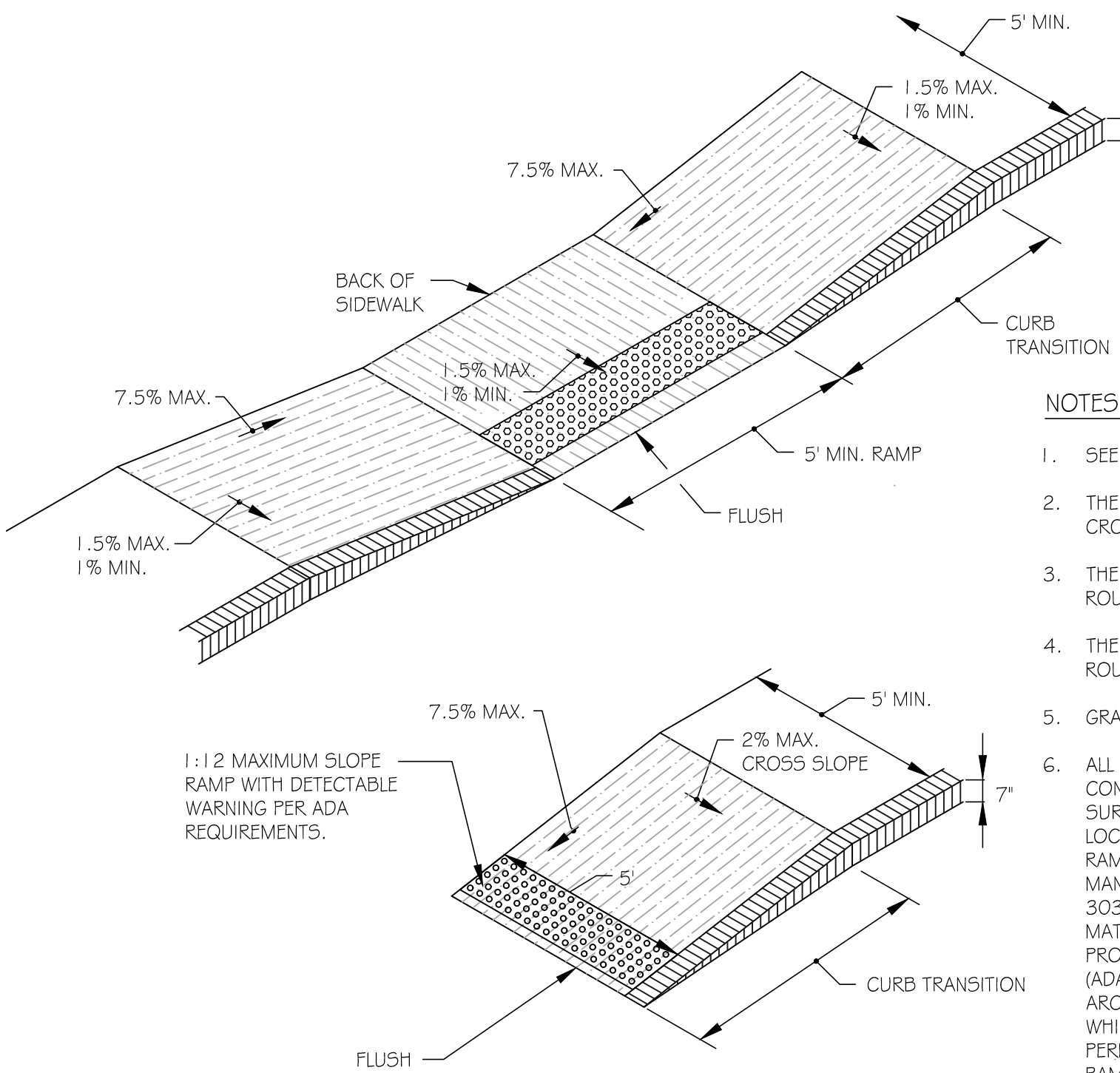
NOTES:

1. ALL CHAIN LINK FENCE FABRIC SHALL BE KNUCKLED (TOP AND BOTTOM)
2. ALL CHAIN LINK FENCE POSTS, FABRIC, TIES AND MATERIALS SHALL BE BLACK PVC COATED.
3. CENTER UPRIGHT REQUIRED ON GATE LEAVES 8'-0" AND WIDER. CENTER RAIL REQUIRED ON GATE LEAVES 6'-0" AND HIGHER
4. CONCRETE FOOTINGS SHALL BE FOUR TIMES THE POST DIAMETER, OR AS DESIGNATED ON INDIVIDUAL DETAILS.



SINGLE GATE DETAIL

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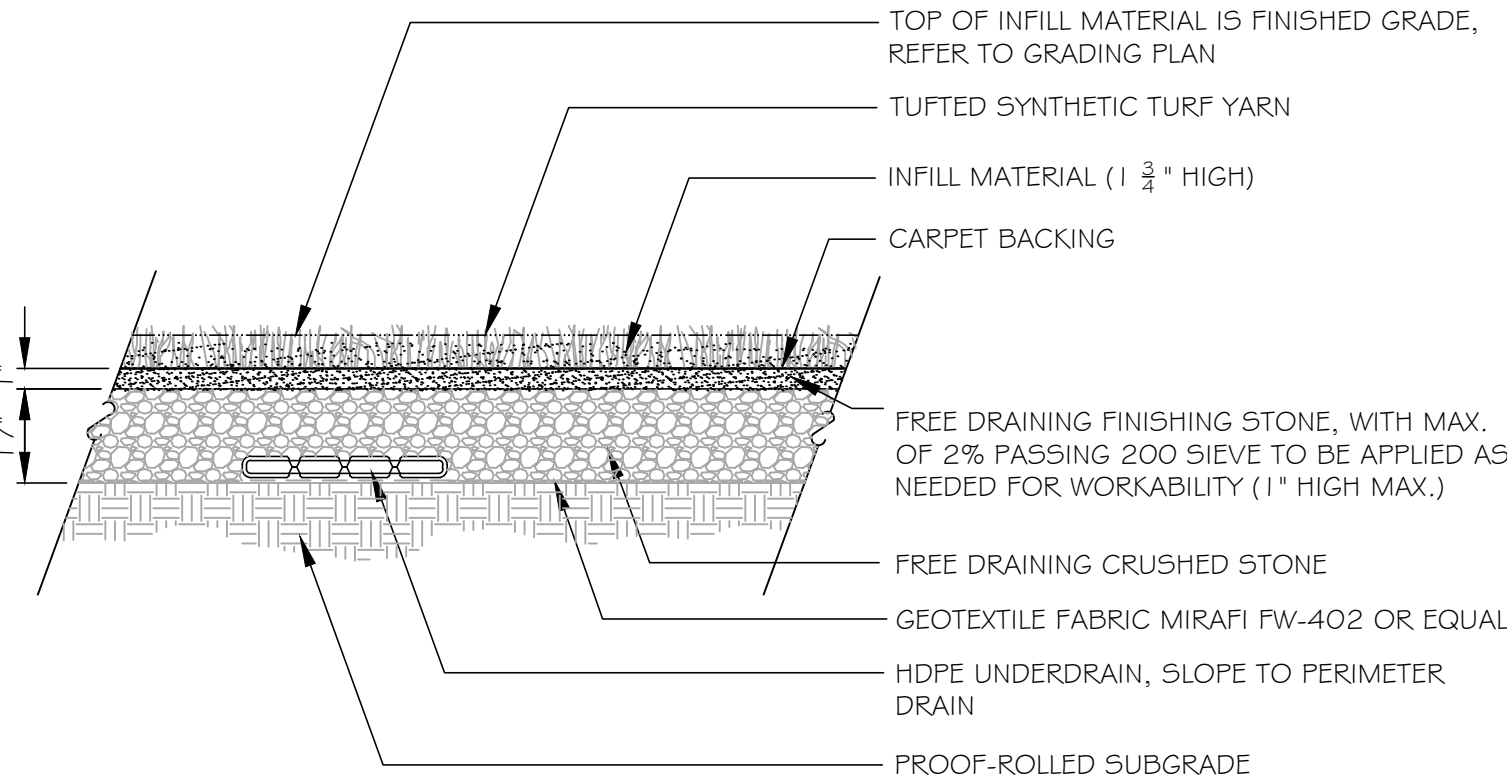
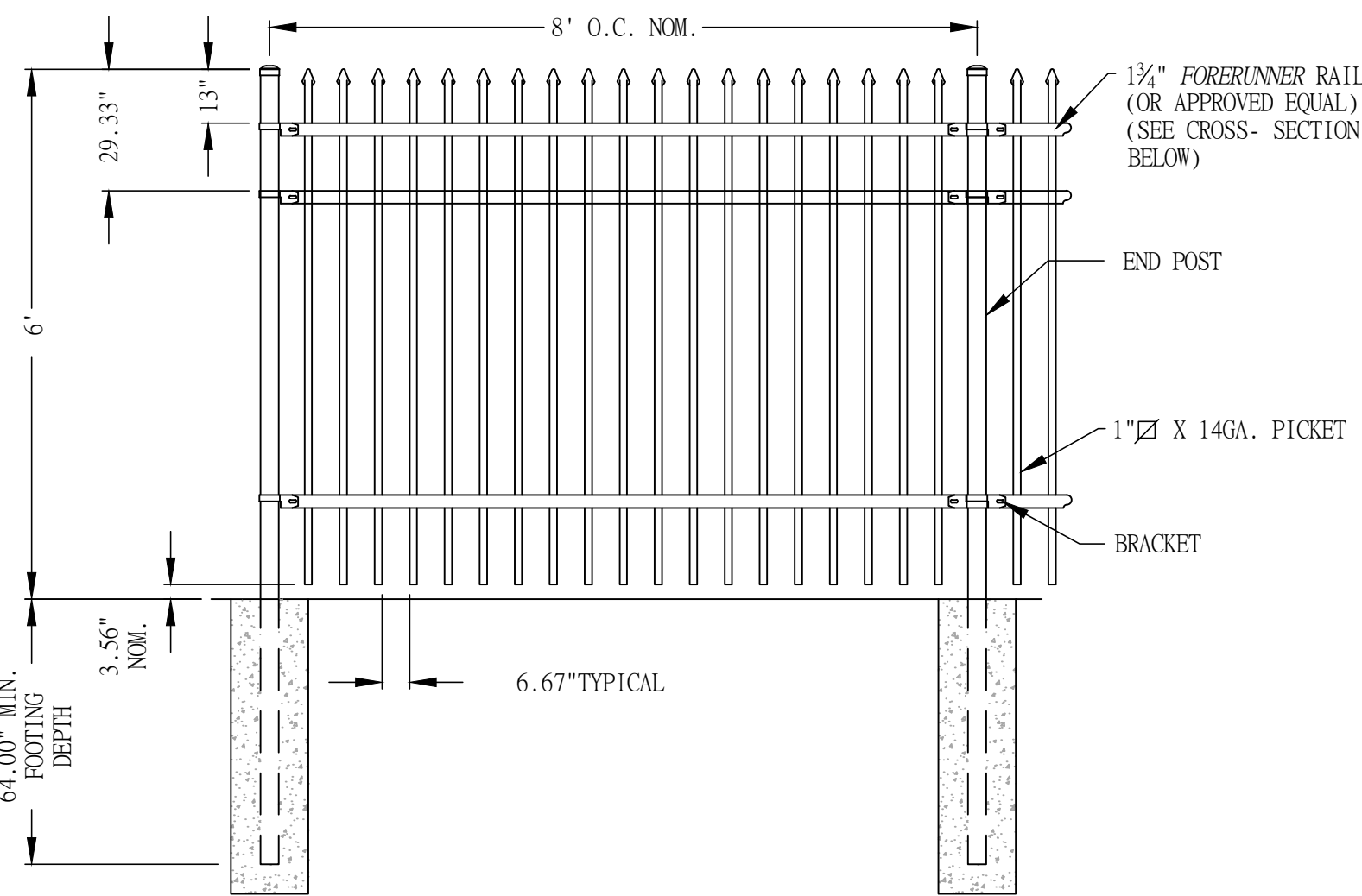


ACCESSIBLE CURB RAMPS

N.T.S.

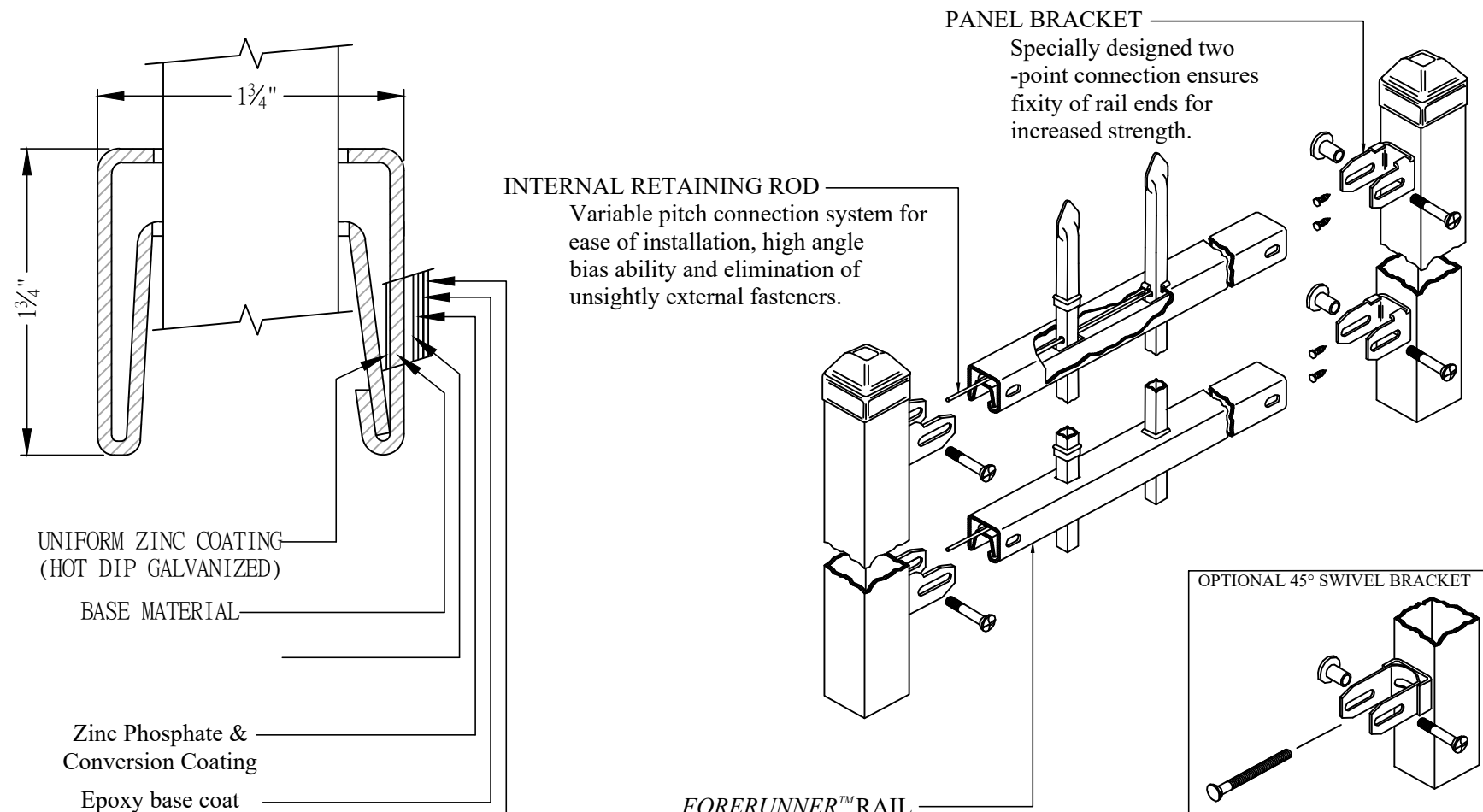
NOTES:

1. SEE PLANS FOR CURB TYPE.
2. THE MAXIMUM ALLOWABLE SIDEWALK AND CURB RAMP CROSS SLOPES SHALL BE 2.0% (1% MIN.)
3. THE MAXIMUM ALLOWABLE SLOPE OF ACCESSIBLE ROUTE EXCLUDING CURB RAMPS SHALL BE 5.0%.
4. THE MAXIMUM ALLOWABLE SLOPE OF ACCESSIBLE ROUTE CURB RAMPS SHALL BE 7.5%
5. GRADE BASE OF RAMP TO PREVENT PONDING.
6. ALL RAMPS (INDICATED BY [diagonal lines]) SHALL BE CEMENT CONCRETE WITH A TEXTURED AND COLORED NON-SLIP SURFACE (WARNING MAT) CONFORMING TO APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS. ACCESSIBLE RAMP DETECTABLE WARNING MAT SHALL BE AS MANUFACTURED BY "THE DURABAK COMPANY" 303-690-7190, OR APPROVED EQUAL. THE WARNING MAT SYSTEMS SHALL CONFORM TO ALL RELEVANT PROVISIONS OF THE AMERICANS WITH DISABILITIES ACT (ADA) REQUIREMENTS AND THE MASSACHUSETTS ARCHITECTURAL ACCESS BOARD REQUIREMENTS, WHICHEVER IS STRICTER. THE SYSTEMS SHALL BE A PERMANENT MAT THAT IS INSTALLED AT ACCESSIBLE RAMPS. IT SHALL BE EMBEDDED INTO THE CONCRETE DURING INSTALLATION TO AID THE BLIND AND VISUALLY IMPAIRED. THE MAT SHALL INCORPORATE TRUNCATED DOMES POSITIONED TO ADA SPECIFICATIONS.

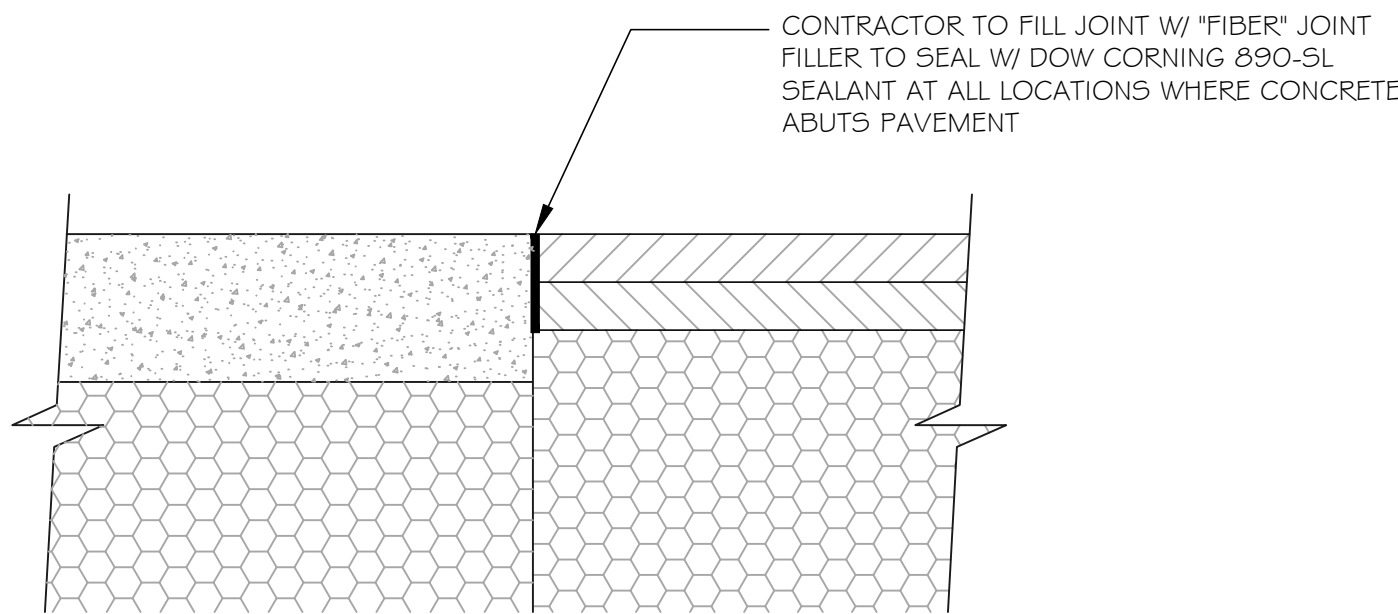


INFILLED SYNTHETIC TURF SYSTEM DETAIL

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Values shown are nominal and not to be used for installation purposes. See product specification for installation requirements.



CONCRETE TO PAVEMENT DETAIL

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